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PRELIMINARY NOTE ON OBSERVATIONS MADE ON PHYSICAL CONDITION OF PERSONS ENGAGED IN MEASURING RADIUM PREPARATIONS.

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Public Health Service.

This report presents the observations made during a period of about a year and a half, from January, 1922, to July, 1923, on the physical condition of the persons employed during that time in the radium section of the United States Bureau of Standards, Washington, D. C. The reasons for making this study were twofold: (1) The necessity for periodic supervision of the physical condition of persons engaged in the constant handling of radium, in order properly to safeguard their health; (2) as a matter of scientific interest, to note the physical effects upon radium workers of continued exposure to radiation.

Practically all the radium that is sold for medical or scientific purposes by manufacturers or commercial firms in the United States is sent to the United States Bureau of Standards for measurement; thus the employees of the radium section of the Bureau of Standards daily handle radium in varying amounts up to 750 milligrams. The total amount that may be on hand at the Bureau of Standards at any one time varies from 0.5 gram to 4 grams. Radium bromide is the salt that is most frequently handled.

It is not the purpose of this report to review the literature dealing with the physical effects on radium workers of continued exposure to radiation, but rather to record as a preliminary note the matters that have come under our observation. Acknowledgment is here made of the excellent cooperation and valuable assistance given during this study by Mr. W. H. Wadleigh, chief of the radium section. Through the courtesy of Dr. G. W. McCoy, director of the Hygienic Laboratory of the United States Public Health Service, all of the blood examinations were made by workers at the Hygienic Laboratory.

It has been well known for several years that persons exposed to large amounts of radiation frequently experience harmful physical effects. Various general symptoms, such as headache, malaise, weakness, undue fatigue, unusual need of sleep, increased excitability,

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fretfulness, irritability, disordered menstruation, attacks of dizziness, etc., were said to be caused by long and repeated exposures to radioactive substances (1); but more recent experimental and clinical evidence shows that these general symptoms are perhaps not so frequent in occurrence nor so important as danger signals as are the now well recognized blood changes.

The polymorphonuclear leucocytic and the lymphocytic blood content of radium workers is decidedly lower than that of normal individuals. Even among workers with the least exposure to radiation there was no evidence of leucocytosis. This contrasts with the fact that, in small animals, alternate periods of radiation and freedom from radiation will, under certain conditions, produce profound leucocytosis, and the leucopenia following a single dose of Röntgen rays

is often followed by leucocytosis (2).

The low polymorphonuclear blood content commonly found and the anemia of an aplastic type affecting the much exposed workers point to an interference with the output of blood cells from the bone marrow. Among X-ray workers there is rarely any evidence of such an effect, though a small fall in the number of circulating polymorphs and a mild anemia have been noted in a few cases. It would seem that the penetrating gamma rays are able to reach the bone marrow, whereas the relatively soft X-rays used clinically fail in this respect (3).

An initial fall in the number of circulating lymphocytes occurs in the blood soon after exposure to radiation. The experimental and observational data bear upon one another to the extent of showing that both X-rays and gamma rays may be expected to cause lymphocytes to disappear from the circulation. Changes in the red blood cells have also occurred after a single gamma ray exposure; they are not of a pronounced character, however, unless the radiation is very prolonged (4).

There is a constant occurrence of a marked polynuclear leucopenia. The recovery from the leucopenia is very slow. There is agreement in respect to the destruction of lymphocytes. Destructive changes in bone marrow have also been described (5).

A thrombopenia was found to be a lesion common to vitamine-A

deficiency and exposure to radium (6).

Undue exposure to the X-rays or radium is associated at times with a moderate leucoplakia, a relative lymphocytosis, a relative polycythemia, and occasionally an eosinophilia. A low blood pressure, which does not seem to be associated with any other definite symptoms, is quite common. The skin changes found in the earlier workers are not increasing and are being avoided entirely by the later ones because of increased knowledge and increased protection (7).

A diminution of the number of polynuclears of 1 and 2 nuclei and an augmentation of the polynuclears of 4 and 5 nuclei were noted (8).

The small variety of mononuclears is especially sensitive to radiation, as measured by their disappearance from the peripheral circulation after exposure of the animal to radiation (9).

The lymphocyte is the most radio-sensitive cell in the animal organism. The change in the numerical relationship of the two types of white cells is not accompanied by noticeable change in the total leucocytic count (10).

The red cells seem to be diminished in numbers in the radium workers. The hemoglobin content of the blood is less affected, so that the color index is high. This finding, combined with the fact that there is no evidence of red cell regeneration, and with the associated polynuclear leucopenia, points to an interference with the production of red cells and polynuclears in the bone marrow. It would seem that the penetrating gamma rays of radium react and injure the bone marrow, whereas the less penetrating rays exhibit their effects chiefly upon lymphocytes and lymphoid tissues, which are not protected by a covering of bone (11).

With increased protection for radium workers, evidence is found of a return of the altered blood condition of the workers to the normal. In the case of the red cells, the polymorphs, and the hemoglobin, the return to normal was complete; only a mild lymphopenia persisted (12). Three deaths were reported in 1921 as occurring among persons employed in handling radium at the London Radium Institute (5). These fatal cases were accompanied by anemia, which has occurred from time to time among radium workers. Taking into account the great rarity of aplastic pernicious anemia, it is reasonable to conclude that exposure to radium was an important etiological factor.

From the available literature on this subject it appears that continued exposure to radiation usually produces the following harmful effects:

- 1. Pain, sensitiveness, or anesthesia of the skin of exposed fingers or hand.
 - 2. Burns or destruction of the skin and underlying tissues.
- 3. Effect upon the blood and blood-making organs—usually a profound leucopenia affecting both the polynuclears and lymphocytes; a decrease in blood platelets; also a milder anemia accompanied by a high color index. The reduction of the lymphocytes seems to be definite and regular; the effect upon the polynuclears is irregular.
 - 4. Sterility.

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5. The inhibition of the absorption of fat in the intestinal canal. This has been demonstrated experimentally (13).

The extent of the effect of the exposure to radiation depends upon—

(a) Amount of radium to which the subject is exposed.

(b) Length of time of the exposures.

(c) Frequency of the exposures.

(d) Proximity of the radium to which the subject is exposed.

(e) Amount and character of protection afforded against radiation.

(f) Character of the rays to which the subject is exposed.

The following is quoted from J. C. Mottram (11) regarding the biological action of radium:

"Surveying the biological action of radiation, one of the first generalizations which may be made is that the various tissues differ widely in their susceptibility; some-for instance, nerve cells-show no changes after relatively large exposures, whereas others-for instance, reproduction cells-are altered by small amounts of radi-The following tissues are especially sensitive: skin, blood vessels, connective tissues, hair follicles, reproduction cells, lymphoid tissues, and blood cells. Experimental evidence goes to show that the last three are more susceptible than the others, so much so that these tissues would be especially chosen for examination in searching for the earliest effects of radiation. There is no doubt about the sensitiveness of the reproduction cells. The sterility of X-ray workers who have good health in other respects is very clear evidence. As regards the blood changes, it may be mentioned that experiments on rats have shown that, by their blood changes, X-radiation could be detected where a photographic plate gives no record. For this reason, and also because the blood changes have been the subject of large investigation, it may be concluded that they will serve as an excellent indicator for the biological effects of radiation. The present state of our knowledge would lead to the conclusion that in the absence of blood changes the worker had received no more than a harmless amount of exposure to radiation."

Most of the articles appearing in the literature deal with the harmful effects of continued exposure to radiation upon persons handling radium for therapeutic purposes. As this study was made upon persons who are engaged in measuring the gamma radiations of the radium salts examined, it is believed desirable to describe briefly the methods employed in their work.

The packages containing the radium that is sent to the Bureau of Standards for examination and measurement come by registered mail or express. They are delivered to the shipping room and then brought to the packing room of the radium section, where the packages are opened by the employees. Approximately one-third of the radium received is in sealed glass tubes from 1 to 2 centimeters in length and about 2 millimeters in diameter, and the remainder is in sealed metal needles from $1\frac{1}{2}$ to $2\frac{1}{2}$ centimeters in length and about $1\frac{1}{2}$ to $2\frac{1}{2}$ millimeters in diameter. The persons who do the unpacking stand behind cast-iron screens which are placed upon a table at

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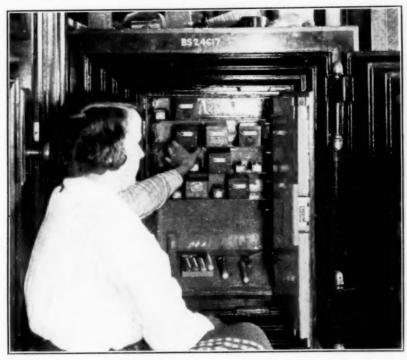
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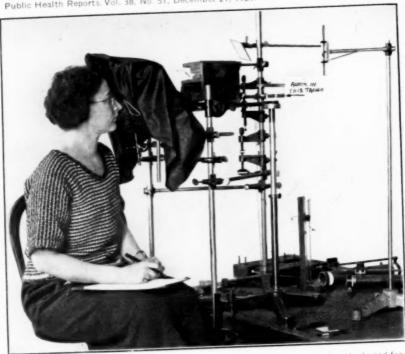
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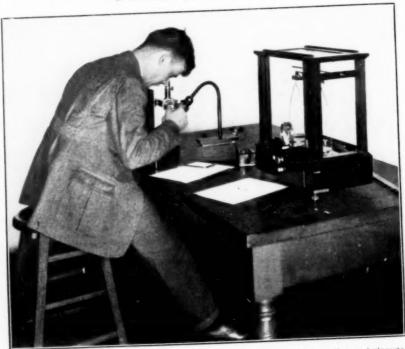
Unpacking and packing radium.



At the radium safe: Representing (1) taking inventory, and (2) removal of radium to and from safe for storage, measurement, and packing.



Measuring radium by means of the gamma ray electroscope—the standard method used for all but exceedingly weak preparations.



Making measurements of length, diameter, and weight of radium tubes, needles, and plaques for purposes of future identification.

the height of the chest so as to protect the workers as much as possible. This use of the cast-iron screens was instituted a short time prior to the beginning of this study and was continued during the time of the study. The hands and arms of the workers are extended around the screens. The applicators containing the radium are removed from the containers in which they arrive and examined closely. To avoid any contamination of the surface of the applicator which may have been acquired during the process of manufacture, the preparations are washed thoroughly with soap and water by means of a small brush and dried with cotton held in forceps. They are then put in larger glass containers, marked for identification purposes, and placed in wooden boxes about 6 inches long, 3 inches wide, and 3 inches high, with a lead lining about onehalf inch thick. During this process the preparations are handled entirely with forceps. (See Pl. I.) The boxes containing the radium are carried in a fiber bucket to the safe where all this material is kept.

Radium that is being sent out from the Bureau of Standards is handled in a similar way. The unpacking and packing of radium require the services of two or three persons for about one hour daily.

The chief exposures and sources of exposures to radiation during

unpacking and packing appear to be-

1. Exposure of hands, arms, neck, and head. In unpacking and packing, the use of rubber or lead-rubber gloves has not proved satisfactory. The sense of touch alone can not be relied upon; hence it is necessary to see the package and radium containers, and conse-

quently there is also an exposure of the head and neck.

2. Sometimes radium tubes are received in a broken or leaky condition. In such cases, when the package is opened, exposure involving the breathing of radium emanation is very considerable. In case of broken or leaky tubes the radioactive gas is spread through the room. Unless there is proper ventilation of the room by means of electric fans after such occurrences, persons working in the room are exposed to radiation for a considerable time, and from within the lungs as well as from without.

When ready to undertake the measurements on a given tube of radium, the following is the process through which the worker must go: He must visit the safe where all the radium is kept, open the door, and, according to a check list, remove the lead-lined wooden boxes containing the preparations desired. (See Pl. I.) The boxes are then carried to a smaller safe in an adjoining room, from which the preparations are taken one at a time for actual measurement. The individual preparations are taken to the electroscope, or instrument where the measurement readings are made, in a wooden carrier having a long handle. In taking the radium from its place in the

safe and placing it in the wooden carrier, forceps are used for picking up a particular tube from among several others.

During the actual measurements the tube containing the radium that is being measured is placed upon a support about on a level with the face of the operator and at a distance of about 3 feet. (See Pl. II.) The process of making the readings consumes about seven minutes. After the readings have been completed, the radium is placed in the wooden carrier box and returned to the safe. The return of the radium tube to the safe must then be noted on the check list.

The principal exposures and sources of exposure to radiation during this process are as follows:

1. Exposure when standing before the open safe for the purpose of finding, identifying, and checking the particular tube desired.

2. Use of fingers on forceps in taking tube from container and

placing it in wooden carrier box.

3. Exposure when tube is being placed upon instrument for reading.

4. Exposure the same as 1 and 2 when the tube is being returned to the safe after the readings are completed.

For the purpose of future identification at any time during which the bureau retains the radium, accurate weighings are made of the applicators containing radium; also, measurements of the external dimensions are made with a comparator. (See Pl. II.) During this process the radium is kept, as much as possible, behind lead screens.

In order to obtain some idea as to the actual amount of radiation to the person exposed during the operation above mentioned, and as to the part of the body that is most frequently exposed, an experiment was made in which standard dental films were worn in various locations on the body for varying lengths of time. A penny was glued to the proper side of each film, and the films were worn on the forehead, neck, chest, and both inguinal regions. These films were worn daily by employees of the section while engaged in their routine work.

For the first experiment five films were worn by each person, as follows: On forehead, neck, chest, right inguinal region, and left inguinal region. Seven persons took part in this experiment, which lasted for a period of two days. During this time the amount of radium to which each person was exposed varied from 10 milligrams to 500 milligrams, and the time of exposure varied from 15 minutes to 2½ hours. None of the films which were worn for two days showed any evidence of exposure to radiation.

Then, in order to obtain a basis upon which to consider the effect upon films of exposure to radiation, several films were exposed to various amounts of radium for varying lengths of time. The amount of radium, the distance of the film from the radium, and the time of exposure were as follows:

10 mg. at 5 cm. for 5 minutes.

25 mg. at 5 cm. for 5 minutes.

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50 mg. at 30.5 cm. for 30 minutes.

75 mg. at 40 cm. for 45 minutes.

15 mg. at 60 cm. for 2½ hours.

Positive results of exposure were obtained in all films thus used.

A film was exposed at a distance of 60 cm. for 5 minutes before an open safe containing 500 milligrams of radium. Between the film and the radium was interposed a one-half-inch lead screen. The results of this exposure were negative.

A second experiment of wearing films was made. This time the films were worn on the five locations previously mentioned, by six persons for three days. During this time they performed their regular routine work. The amount of radium handled and the length of exposure during this time varied within the limits named for the first experiment; that is, from 10 milligrams to 500 milligrams in amount and from 15 minutes to 2½ hours in time. The films from three persons in this experiment showed positive evidence of exposure to radiation. The three films that were positive were those worn upon the forehead.

The preceding experiments seemed to show that the forehead was the most exposed part of the workers, as the films worn on the other parts of the body were at all times negative; and so in the next experiments with the wearing of the films it was decided that they should be worn only upon the forehead. The films were now worn by six persons for four days. The amount of radium to which they were exposed at this time varied from 10 milligrams to 750 milligrams daily, and the length of time from five minutes to three hours. During the time these films were worn, regular routine duties were performed. All the films used in this experiment showed positive evidence of exposure to radiation.

It would therefore seem, from the results obtained from the wearing of films as above described, that employees of the radium section in the course of their regular routine work receive sufficient radiation to record positive findings upon the dental X-ray films. It would also appear that the head is the part of the body that is exposed to the greatest amount of radiation, except, of course, the hands and forearms.

Having thus considered the possible hazard of exposure to radiation in the work process of the group of persons under discussion, and having further established by experiments that all members of the group receive upon at least one part of the body (the forehead) sufficient radiation to produce positive evidence of exposure on dental films, the next step in the investigation was a consideration of the general physical condition of the persons thus exposed to radiation.

Accordingly, in the beginning of the study every worker in the radium section was given a complete physical examination. Eight persons were employed in this work at that time. A former employee who had been working with radium for six and one half years past was also examined. During the period covered by this report several employees left the section and one or two new ones came in for a short time. Only five employees were continuously under observation for the entire period of the year and a half which this report covers. Table I gives a summary of the results of the physical examinations made at the beginning of the study:

Table I.—Summary of results of physical examinations made at beginning of study of persons employed in radium section, United States Bureau of Standards, Washington, D. C., January, 1922.

Remarks.		Notices skin on finger tips is tough; thinks there is some diminution in tactile sense of fingers.	Has had some di- gestive disturb- ances during past year, probb- bly due to nerv- ous strain and overwork.	Menstruation normal.	Do.	Menstruation normal: feels de- pressed, sone what nervous, generally run down.
Physical con-	defects.	Physical condition good; no defects noted.	Somewhat nervous, probably ductoover- work and nervous	Heart slightly enlarged; systolic	Thyroid slightly enlarged; presystolic murmur; heart not enlarged.	Thyroid slightly en- larged; ac- centuation of second car- diac sound.
Blood	D.	89	8	89	110	250
Bl	υά	801	104	100	. 130	. 115
Gain or loss of weight in past 3	months.	Lost 8 pounds 108	No104	No100	No130	No115
Past personal	history.	Negative	Fall from street car 2 years ago; left limb has been numb since; seems to be gradu-	Negative	On diet for dia- betes from age of 3 to 6 years; fre- q uent at- tacks of ton- sillitis until removal of	Sick leave Nov.10, 1921, to January, 1922, physi- cian diag- nosed condi- tion as ane mia and nerve fa- tigue.
Family	history.	Negative		Negative	····op···	ор.
Previous work.	A A C A C A	Student 4 years. Negative	Teacher of physics 16 years.	Student	Student 4 yearsdo	Student 4 years; clerical work 1 year.
Handles or is ex-	daily.	Handles radium 3 hours daily, 6 days a week.	I hour daily for 6 days a week.	Spends about 5 halfdaysa week handling radium.	Handles radium for 3 hours 4 days a week.	Handles radium 34 hours 4 days a week.
Length of time	present work.	Handled radium for about 10 months,1919-20; at present has been handling radium since	Ray actually handled radium for 18 months, 6 months, 6 months of this time 3 hours a day.	16 months; began work in radium section October,	6 months; began work radium section August, 1921.	18 months: began work radium section August, 1920.
Age.	50	21	48	23	21	23
Sex		W.	K	E.	ri.	rai .
Employee.		No. 1	No. 2	No. 3	No. 4.	No. 5.

Table I.—Summary of results of physical examinations made at beginning of study of persons employed in radium section, United States Bureau of Standards, Washington, D. C., January, 1922—Continued.

Remarks.		Menstruation normal; spends 3 days a week pursuing post-graduate studies in university of	near-by city. Does not feel tired; appetite good.	General appearance excellent; student 5 days a week at college; works in radium section only on	Slight warfilke growth on dorsal surface of each hand; states that they are now diminishing in size; tacile sense in index and second fine gers oright hand is poor; this condition has been present for 2 or 3 years; about 9 months before leaving radium work began to notice blanching of index finges they are always and they are always and or they are always and or they are always and or notice blanching of index fingers of growth began to notice blanching of index fingers of growth pages of they are always and and are always are always and al
Physical condition and	delects.	Physical con- dition good; no defects noted.	General appearance suggests under weight	Slight irregu- larity of pulse rate.	Defective hearing both ears, most marked in left,
od sure.	D.	0C	8	89	8
Blood	zá	001	101	118	
Gain or loss of weight in past 3	Houting	Lost 5 pounds	No104	Gained 2 pounds, 118	No
Past personal history.		Has hay fever an nually; begins in August.	Y	Negative	ор
Family history.		ор	do	do	
Previous work.		do	do	Student 5 yearsdo	Radium section 64 years.
Handles or is ex- posed to radium	dauy.	Handles radium 1 hour a day 3 days a week.	Handles radium usually about 1 hour daily 6 days a week.	Handles radium 1 or 2 hours daily 1 day a week.	Has been away from radium for 14 years.
Length of time present work.		2 years	18 months	7 months	1å years
Age.		25	24	18	49
Sex.		(a)	4	ĸ.	ĸ
Employees.		No. 6.	No. 7	No. 8	No. 9.

both hands, also middle finger of right hand; fingers very sensitive to cold; some retraction of skin from nalls on each hand noticed about time blanching first noted; blanching and retraction of skin now better.		This employee was in section only short time and no physical examination was obtained. Menstruction normal. Do.
		Thyrold slight- ly enlarged. Thyrold en- larged: no cardiac mur- murs, but murs, but getion slight- ly irregular; slight lordo- sis.
		88 88
		114
	AS BEGUN.	Lost 4 pounds 116 Lost 84 pounds 114
	CE STUDY W	Negative
	MADE SING	Negativedo
	AMINATIONS 1	Student 4 years Negative
	PHYSICAL EXAMINATIONS MADE SINCE STUDY WAS BEGUN.	onths
		6 months
		8 8
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The summary of physical examinations made at beginning of study shows four males and five females. No serious defects were found in any of the group. Two of the males had symptoms of the skin of the fingers and hands which are suggestive of the effects of radiation. One male attributes his nervousness and digestive disturbances to continued exposure to radiation. He states that members of his family, without actually knowing whether he had been exposed to radiation or not, could accurately tell by his increased nervousness and irritability that he had been exposed to radiation. Two females had enlarged thyroid glands. The cardiac findings in all the females are thought to be functional. Menstruation in the females had not been disturbed by exposure to radiation. One female (No. 5) had recently returned from two months' sick leave. A physician had made a clinical diagnosis of anemia and nerve fatigue. At the time of the physical examination made during this study, she still felt nervous and depressed. It will be noted that in all the cases except in No. 4, No. 5, and No. 8 there seems to be a rather low blood pressure. Case No. 5 had only recently returned from sick leave when this reading was made. Case No. 8 works with radium only one day a week, thus leaving case No. 4 as the only one whose blood pressure apparently was not lower than it normally should be. These blood pressure readings were made with a Tycos instrument, the auscultatory method being used.

The physical examinations, therefore, seem to show that, of the nine persons examined, only two presented any signs of the effect of radiation upon the skin, and that exposure to radiation apparently produced a lowering of blood pressure in the majority of cases. It was thought that there might exist a relation between the decrease of red or white blood cells in certain members of the group and the low blood pressure, but it appears, upon careful study, that such was

not the case. (See Table III.)

The next step in the investigation was an examination of the blood to determine whether any changes could be noted. An examination of the blood of the employees of the section made on February 6, 1922, gave the results shown in Table II.

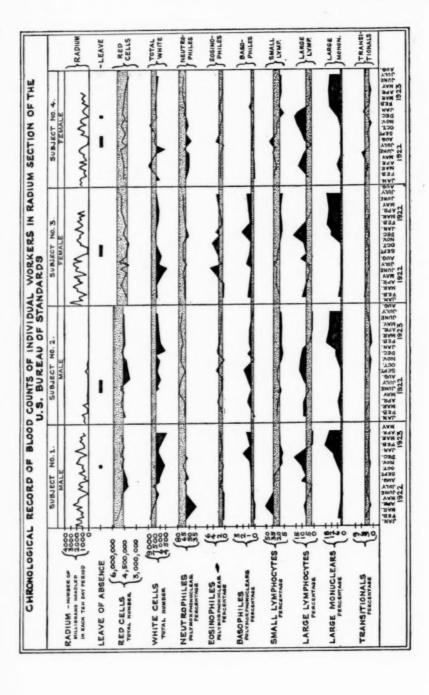
Table II.—Summary of initial blood counts made February 6, 1922.

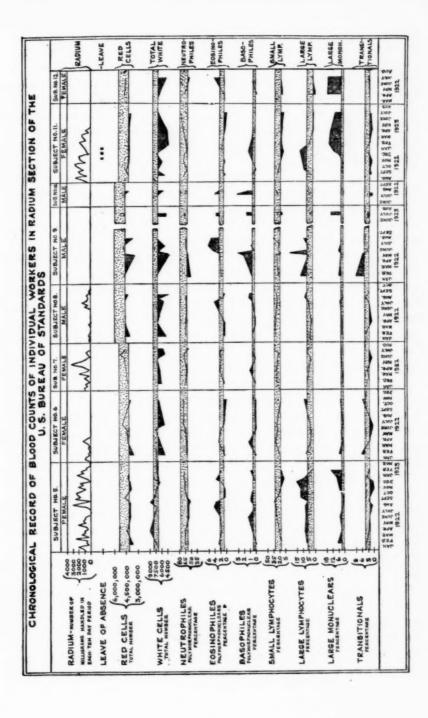
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						Employee.				
	Normal	No. 1.	No. 2.	No. 3	No. 4.	No. 5.	No. 6.	No. 7.	No. 8.	No. 9.
Total reds	Men, 5-54 million; women, 44-5 million.	5,430,500	4,306,000	4,050,000	4,590,000	3,700,000	3,595,000	4,370,000	4,100,000	4,745,000
Hemoglobin (Talquist)	Men, 90-100 per cent; women, 50-100 per cent.	28	98	96	96	8	8	*8	105	
Total whites	Men, 7,500; women, 7,500	8,400	6,800	009'9	6,000	7,400	5,200	6,100	4,800	7,200
Polymorphonuclear neutrophiles. Polymorphonuclear eosinophiles. Polymorphonuclear basophiles. Small lymphocytes. Large lymphocytes. Large mononuclears. Transitionals.	65-70 per cent 1-2 per cent 20-30 per cent 2-9 per cent 2-9 per cent 1-2 per cent 2-4 per cent	Per cent. 59.5	Per cent. 61.5 61.5 82 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Per cent. 61.5 17 17 4.5 1.5	Per cent. 57.5 32.0 4.5	Per cent.	Per cent. 61.2 0.4 20 20 4.8 6.6 6.4	Per cent. 63 . 5	Per cent. 62. 55. 55. 64. 64. 64. 64. 65. 65. 65. 65. 65. 65. 65. 65. 65. 65	Per cent. 1.3 1.3 21.55 21.55 6.55 6.55





In the studies made by Mottram, anything less than an 8 per cent variation was considered "no change." Applying this standard to the blood examinations tabulated above, we find that all in the group were below normal in polymorphonuclear neutrophiles. Two (No. 3 and No. 5) were below normal in small lymphocytes. All save one (No. 8) were above normal in large lymphocytes. Three persons (No. 4, No. 6, and No. 8) were below normal in total white cells. Two persons (No. 5 and No. 6) were below normal for total red cells. Thus we find that three persons (No. 5, No. 6, and No. 8) had a deviation from normal in more than one of the cellular constituents of the blood.

Following the initial examination and blood counts, other blood counts and blood-pressure readings were made at intervals varying from two weeks to two months, covering a period of about a year and a half. The accompanying graphs show results of these several blood counts.

It will be noted that cases No. 10, No. 11, and No. 12 appear in the graphs. These represent employees who entered the section after the study had begun. A record of their physical examinations will be found in the summary shown in Table I, except No. 10, upon whom no physical examination was obtained before he left the section. Again applying the standard that anything less than 8 per cent variation is considered "no change," we find that there were changes and variations in the blood picture as follows:

For the polynuclear neutrophiles there was a tendency to be somewhat below normal, although the last count shows all save one within allowable limits. All members of the section show a decrease below normal in the number of small lymphocytes. The large lymphocytes vary and most of the time are above normal, but the last two counts show a decline in all the members of the section. The total white cells vary also; the last count shows four persons below normal limits, two dropping to 4,900. The last count of total reds shows three below the allowable limit; and during the year several other individuals fell below the lower limit. In the studies to be made henceforth it is planned to run a control group for blood counts. It appears probable that there are appreciable individual differences in the resistance to changes in the blood.

Table III, showing blood-pressure records, is of interest. The readings were made by the auscultatory method; a Tycos instrument was used most of the time. On one or two occasions a mercury instrument was used. From this table it is evident that most of the workers in the radium section have a rather low blood pressure, both systolic and diastolic, as compared with the commonly accepted normal, and that these low blood pressures have continued persistently during the entire period of this study.

Table III.—Summary of the readings of the blood pressure of employees of the radium section from January, 1922, to July, 1923.

o s s e l s r e t

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													Year	Year and month.	nonth										
										1922	6											1923			
Employee.	Sex.	Age.	Janu	January.	May.	ly.	June.		July.		August.		Sep- tember.		No- vember.		De- cember.	1	annar	Y.	January. February.		April.	-	July.
			00	D.	oc.	D.	σά	D.	50°	D.	တိ	D.	02	D.	200	D.	σů	D.	S.	D.	S.	D. s	S. D.	1	S. D.
No. 1	N.N.	22.64	86	88	112	288	112	72	88	72	102	1 :8	104	72	114	88	116	62	108	38	86	58	122	72.10	106 74
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	24		92	112	89	110	28	108	862	1112	99	106		911	72	122	99	118	1 19		68 12	122 6	68 12	120
No. 4.	Œ.	22	130	100	140	8	136	72	124	89	130	98	133	63	:	:	130	80	128	89	:	1	130 7	72 13	132 80
No. 5	in.	26	115	128	110	82	108	89			:	-	120	62	118	20	110	28	100	09		.: 68	:		-
No. 6.	4	25		96	128	92	112	28	911	64		:	-	-	118	9	:	:		-	118	09	-:	:	:
No. 7.	Œ.	24	108	8	108	68	86	62	88	88		:	*	:	:	:			:		:	:	:	**	:
No. 8.	M.	18	150	98	::			:	118	8	123	09	118	62	:	:	:	:	:	:	:	:	:	:	:
No. 9	M.	49	108	8	128	28			:	:	102	95	:	:	1	:	:	:	:	:	:	:	:	:	:
No. 10.	M.	: 83				: :	: :	: :	!!	!!	110	98	1114	89	108	. 19	108	52	102	: 8	: 96	56 1	110	. 09	104 60
No 19	N	22						-			-		-		-	-					-	-	114	_	

A summary of the physical examinations of the employees of the radium section made at the expiration of a year following the beginning of the study shows nothing of special significance. Specimens of semen from No. 1 and No. 2 examined during the study showed motile spermatozoa. There were five males and seven females. The menstrual function of one female worker is noted as disturbed since working with radium. It is also noted that every female employee of the section save one is recorded as having an enlarged thyroid. Two of the female employees had only recently entered the section; hence the enlargement of the thyroid gland in their cases certainly could not be attributed to the work with radium. No connection between enlargement of the thyroid and the work has been noted in this study.

Conclusions.

1. At least two persons, one an employee at the time of the study and one a former employee, who were examined during this study, presented symptoms showing evidence of the effect of radiation upon the skin of the fingers and hands.

2. Employees are exposed to radiation, as is evidenced by positive effects upon dental films worn by employees in regular routine work.

- 3. Apparently certain blood changes had occurred in the workers; notably, a tendency in the polymorphonuclear neutrophiles to remain slightly below the lower normal limit, and a diminution in the small lymphocytes, while the large lymphocytes apparently ran somewhat higher than normal. The total white cells had a tendency to decrease in number, as also had the total red cells.
- 4. A low blood pressure, as compared with the usually accepted normal, was noted in practically all the employees of the section.

Recommendations.

On the basis of this study it is recommended-

1. That blood examinations and blood pressure readings be made at regular intervals on all employees of the radium section.

2. That complete physical examination of all employees of the sec-

tion be made at regular intervals.

- 3. That all new employees of the section, before beginning work, be given complete physical examinations, including examination of the blood.
- 4. That in the handling of radium, all employees of the section utilize to the greatest possible extent all practicable protective devices, such as screens, lead-lined carrier boxes, and handling forceps.
- 5. That all rooms in which radium is handled be adequately and thoroughly ventilated. The use of electric fans for this purpose appears to be highly desirable.
- 6. That all employees of the section be warned to reduce to a minimum the amount of unavoidable unprotected exposure to

radiation, and not to remain in the vicinity of radium longer than is necessary.

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7. That in the packing and unpacking of radium in connection with the receipt and dispatch of shipments, all boxes, wrapping paper, and other equipment be assembled, arranged, and prepared so as to expedite the work and thus reduce the amount of unavoidable exposure to radiation.

8. That all employees of the section be allowed to work only five days a week, and that at least a two-day period intervene between the two holidays of each week, these not to be considered annual or sick leave.

9. That all employees of the section be required to take 30 days' annual leave each year, preferably, whenever at all practicable, in two-week periods at six-month intervals.

10. That the 2 days' weekly holiday and the 30 days' annual leave be spent outdoors as much as is possible.

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Appendix.

In the following tables are given the chronological records of the blood counts of the individual workers:

SUBJECT NO. 1.

	Red	ells.				Wh	ite cells				
		Haemo-	Total	Polym	orphonu	clears.	Lymph	ocytes.	Large mono-	Tran-	Un-
	Total number.	globin (Tol- quist).	num- ber.	Neutro- philes.	Eosino- philes.	Baso- philes.	Small.	Large.	nu-	sition- als.	classi- fied.
Normal	Men, 5-51 million; women, 41-5 million.	Men, 90- 110; women, 80-100.	7,500	65-70	1-2	0, 25-0, 5	20-30	2-6	1-2	2-4	
1922. Feb. 6 Apr. 10 June 14 July 26	5, 430, 500 4, 900, 000 4, 880, 000 4, 110, 000	Per et. 85 95 100 100	8,400 7,800 6,450 7,600	Per ct. 59 34.0 59 58	Per ct. 0.5 .5 .4 1.6	Per ct. 0 0 .4 .6	Per ct. 25, 5 52, 5 31, 2 34, 8	Per ct. 5.5 8 3.8 1.4	Per ct. 5 2.5 1.6 .8	Per ct. 4 1.5 3.2 2.6	Per cl
Aug. 15	4, 200, 000	100	6,200	62			28	10			
Sept. 7 Nov. 11 Dec. 19	4, 260, 000 4, 760, 000 4, 580, 000	95 95 93	6,350 5,040	54 67 56. 5	1. 2 . 7 2	.4 .7 1.2	32 12 13. 5	5.6 11.7 16.5	1. 2 6. 4 8	3. 2 1. 4 2. 3	2.
1923. Jan. 2 Feb. 13 Apr. 24	5, 080, 000 4, 570, 000 5, 030, 000	95 100 80	6,520 6,280 4,000	64 59 62.7	1.5 1.0 1.7	2 .7 1.4	10 16. 7 17. 6	11. 5 1. 7 1. 3	8.5 18.3 13.7	2.5 2.7 1.6	
				SUBJI	ECT NO	0. 2.					
1922. Feb. 6 Apr. 10 June 14 June 23	4,306,000 4,960,000 4,510,000 5,120,000	80 100 85 82	6,800 7,000 7,050 6,300 6,600	61, 5 61, 5 76, 2	0.5 2 1.6	0 1 .4	23 20. 5 13. 4	8 8.0 4	2.5 5 2	4 1.5 1.8	0.
June 23 July 7 Aug. 15 Sept. 28 Nov. 11 Dec. 19	5, 129, 000 5, 050, 000 3, 800, 000 3, 980, 000 4, 190, 000 4, 890, 000	91 95 100 95 95	6,600 5,800 6,560 6,110 7,080	69 59 71 68.7	1 2.6 .3 2.3	1.66 0 1	21 22 11. 6 8. 7	9 11.6 10.6 9.6	1.98 5.2 7.7	1.66 1.3 2	
1923. Jan. 2 Feb. 13 Apr. 24 July 19	5, 010, 000 4, 450, 000 4, 510, 000 4, 600, 000	95 95 80 85	4,680 5,860 6,220 6,560	70 64. 8 71 67. 8	2.5 1.8 1.3 1.2	.5 .8 .7 .2	9 11.6 11 12.4	9 3.4 1 1.4	7 16.8 13.7 13.8	2 .8 1.3 3.2	
				SUBJ	ECT N	0. 3.					
1922. Feb. 6 Apr. 10 June 14 July 6 July 26 Sept. 6 Nov. 11 Dec. 19	4,900,000 3,900,000 5,050,000	90 97 100 99 95 95 95 96 90	6,600 6,800 5,200 4,200 6,350 6,000 5,700 7,000 7,000	61. 5 61. 2 65 62. 8 57. 25 65 65 65, 5	0.5 .4 3.2 4.8 .75 2 4 1.5	1 .8 .6 .4 1.25	17 24.8 23.8 22.8 31 29 22.6 15.5 12.5	9.5 6.4 3.2 4.8 4.25 11 5.7 8.5 16.5	4.5 2.4 .8 2 2 2 .7 3 12.5	4.5 3.2 3 1.6 2.5	1.
1923, Jan. 2 Feb. 13 Apr. 24 July 19	4, 520, 000 4, 265, 000 4, 810, 000 4, 800, 000	95 95 · 80 85	7,100 6,610 6,220 6,860	\$5.5 60 64.5 66.8	3 1 1.8 2.8	2 .8 1 1.2	11 11.3 14.7 9.5	14 7.5 2 1.5	11. 5 16. 2 14. 5 16	3 3.2 1.5 2.2	

SUBJECT NO. 4.

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	Red	cells.				WI	nite cells				
		Haemo-	Total	Polym	orphoni	iclears.	Lympl	nocytes.	Large	Tran-	Un-
	Total number.	globin (Tol- quist).	num- ber.		Eosino- philes.	Baso- philes.	Small.	Large.	mono- nu- clears.	sition- als.	classi fied.
Normal	Men, 5-5½ million; women, 4½- 5 million.	Men, 90– 110; women, 80–100.	7,500	65-70	1-2	0. 25-0. 5	20-30	2-6	1-2	2-4	
1922. Feb. 6 Apr. 10 June 14 July 6 July 26 Aug. 16 Sept. 28 Nov. 11 Dec. 19	4, 590, 000 4, 600, 000 4, 950, 000 5, 100, 000 4, 205, 000 4, 810, 000 4, 440, 000 4, 470, 000 4, 460, 000	Per ct. 90 92 100 99 100 90 95 85	6,000 8,800 7,100 4,800 7,100 7,400 7,160 8,460 6,800	Per ct. 57. 5 51 50. 8 63. 2 56 47 59 54. 8 58. 3	Per ct. 1.5 1.5 1.4 1.2 .4 3 1.56 1.5 .7	Per ct. 0 0 .2 .4 .4 .4	Per ct. 32 26 33 26.4 37.2 42 24.8 25 16.3	Per ct. 4 13 8 4.4 2 8 10.5 14.5	Per ct. 0.5 6 1.2 2 2 1.4 3.2 5.7	Per ct. 4 2.5 5 2 1.6 2.63 .8 3	Per ct
1923. Jan. 2 Feb. 13 Apr. 24 July 19	4,680,000 4,680,000 4,470,000 4,020,000	95 95 80 85	7,000 7,340 6,400	63. 7 60 67. 5 66	1.3 1.7 1	.2 .8 0	7. 5 17. 5 13 13. 3	13. 3 4 3 3. 5	9.3 13.8 15 13.7	4.7 2.2 .5 2.5	
				SUBJ	ECT N	0. 5.					
1922. Feb. 6 Apr. 10 Jung 14 Aug. 15 Sept. 6 Sept. 28 Nov. 11 Dec. 19	3,700,000 4,400,000 4,080,000 4,000,000 4,010,000 4,720,000 3,870,000 4,080,000	80 00 95 90 95 95 95	7,400 9,000 8,000 7,200 8,950 7,600 7,310 6,400	65 64. 5 56 57 52. 4 60 65. 5 65. 5	2. 5 1. 5 2 4 3. 2 . 41 . 5 1. 5	0 .5 1,25 .8 .82 .5	16 20. 5 27 30 33 24 18 10. 5	6. 5 8. 5 7. 5 8 5. 6 11. 7 11. 5	6. 5 1. 5 3. 25 1. 4 1. 42 4 6. 5	3. 5 2. 5 2. 25 1 2. 4 2. 05 0	0 .5 .7 1.2 .4
1923. Jan. 2 Feb. 13	4,330,000 4,175,000	90 100	7,840 8,000	68. 8 66. 4	3. 4 1. 8	.2	9, 2 14, 4	9 2.4	6. 6 12. 6	2.8 1.6	
				SUBJ	ECT NO	0. 6.					
1922. Feb. 6 Apr. 10 June 14 July 6 Nov. 11	3,595,000 4,300,000 4,410,000 5,000,000 3,940,000	80 90 95 100 90	5,200 6,200 7,500 5,200 6,640	61. 2 61. 5 63. 6 68 67. 8	0. 4 2. 5 1. 6 . 8	0 1 0 0	20 28, 5 24, 4 26 15, 6	7. 2 3 3. 2 3. 6 8. 3	4.8 1 2.8 .8 3.3	6 2 .8 .8	0.
				SUBJI	ECT NO	. 7.					
1922. Feb. 6 Apr. 10 Jung 14 July 6 July 26	4,370,000 4,520,000 4,780,000 5,200,000 4,456,000	85 90 100 100 95	6,100 6,400 7,100 5,200 5,500	63 60 66, 8 66 56, 2	0. 5 2 1. 6 2 1. 5	0 1 0 .4 .3	27 27 24. 4 21. 6 31. 8	6 5 3. 2 5. 6 5. 4	1 2 2.8 2.8 2.7	2 3 .8 1.6 1.8	0.5
				SUBJ	ECT NO	0, 8,			·	·	
1922. Feb. 6 Apr. 10 July 26 Aug. 15 Sept. 6	4, 100, 000 4, 600, 000 4, 666, 000 4, 500, 000 4, 250, 000	105 95 105 100 100	4, 800 7, 000 5, 250 6, 600 4, 400	62 63, 5 60, 5 62 60, 8	0.5 .5 4 1	0.5 0 .5 1 .8	28 30 24 24 26, 4	4 3 4.5 8 6.8	2 2 3.5	4 1 2.5 4 2	0

SUBJECT NO. 9.

	Red o	ells.				WI	ite cells				
		Haemo-	Total	Polym	orphoni	iclears.	Lymph	ocytes.	Large	Tran-	Un-
	Total number.	globin (Tol- quist).	num- ber.	Neutro- philes.	Eosino- philes.	Baso- philes.	Small.	Large.	mono- nu- clears.	sition- als.	classi fied.
Normal	Men, 5-51 million; women, 41 5 million.	Men, 90- 110; women 80-100.	7,500	65-70	1-2	0, 25-0, 5	20-30	2-6	1-2	2-4	
1922. Feb. 6 May 22 May 29 June 12 July 10 Aug. 15 July 19	4, 745, 000 3, 390, 000 4, 660, 000 4, 620, 000 4, 900, 000 3, 600, 000 4, 730, 000	Per et. 85 95 85 98 85 98	7, 200 4, 000 4, 500 7, 000 5, 100 7, 000 4, 890	Per ct. 51 58 56 61 63.6 62 65.8	Per et. 1.5 2 2 4 6 5 3.2	Per ct. 0.5 2 3 . 8 . 1.5	Per ct. 21. 5 26 14 23 20 34 12. 5	Per ct. 11. 5 5 20 5 5. 2 9 2. 2	Per ct. 5 2 3 4 2.8	Per ct. 8, 5 5 2 3 1. 6 1. 8	Per el
				SUBJ	ECT NO), 10,					
1922. July 26 Aug. 15	5, 050, 000 4, 200, 000	95 85	7,200 5,600	62. 7 64	4 2	0.3	24. 7 28	3.3	1.3	2.7	1
				SUBJ	ECT N	D. 11.				,	
1922. Sept. 6 Sept. 28 Nov. 11 Dec. 19 1923. Jan. 2 Feb. 13 Apr. 24 July 19	4, 230, 000 4, 500, 000 4, 180, 000 4, 070, 000 4, 160, 000 4, 160, 000 4, 110, 000 3, 920, 000	95 85 90 95 95 80 85	5, 250 7, 000 5, 940 7, 100 6, 660 4, 280 4, 680 6, 790	66, 4 61 69, 2 67, 7 61 61, 8 69, 5 76, 7	0.3 1.29 .6 .8 1.4 1.4 .5	0.7 .0 .6 1	26 24 16. 8 11. 7	3.3 8.9 10.6 11.5	1 2. 4 1. 4 5. 5	1.3 1.85 .8 1.8 4 1.9 1	1
				SUBJ	ECT NO	0. 12.					
1923. Apr. 24.	4,640,000	80	6,730	66	1	0	14	0	17	2	
July 19	4, 490, 000	85	4,950	55, 3	4.3	.6	18	3	16.7	2	*****
				SUBJE	CT NO	. 13.					
1923. July 19	5, 030, 000	90	6,910	60.3	1	0.3	12	2	12.7	2.7	

THE PROGRAM FOR ORAL HYGIENE IN THE PUBLIC SCHOOLS OF MINNEAPOLIS, MINN.

By F. E. HARRINGTON, M. D., Director of School Hygiene, Minneapolis, Minn.

The ultimate object of the oral hygiene program for the public schools is to have the teeth of the children put in good condition and to maintain them in that condition, thus eliminating, as far as possible, the assessity for reparative work. To maintain this object,

an extensive educational program has been carried on in the schools this year in connection with the prophylactic and the reparative work.

Educational program.—The purpose of the educational work is to disseminate information in regard to dental hygiene, to arouse interest, and to gain the cooperation of the teachers, parents, and children. To accomplish these purposes an effort has been made to choose the methods which would yield the maximum benefit with the minimum funds available.

The work has been maintained during the past year by two dental nurses, whose duty it has been to examine the teeth of all the children from kindergarten through the sixth grade (inclusive). Up to June 12, 1923, this program had been carried on in 47 schools in the city.

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At the first visit to the school (after securing the sanction of the principal), the records are made, the names of the pupils being taken according to rooms. A brief talk is given in each room to explain the 100 per cent program for good teeth and to impress upon the children the necessity for dental care. Four or five children are taken from the room at first, and as one returns another child comes out for the examination. In this way class work is but slightly interrupted.

When the examination is made, a personal talk is given to arouse individual interest. If necessary, a demonstration of the correct method of brushing the teeth is given. Particular stress is also laid upon the importance of caring for the 6-year molars.

A record is kept of each individual case by checking for cleaning, filling, or extraction. If no work is necessary, the case is checked "O. K.," and a gold star is placed after the name. In addition to this, the child is given a notification slip, grading his mouth as "good," "fair," or "poor." If "fair" or "poor," he is also given a dental certificate to be signed by a dentist upon the completion of all necessary dental work. When the certificate is signed, it is returned to the teacher, who keeps it until the check up is made the following month.

On the second and successive visits, the records are checked by collecting the signed certificates and rewarding the pupils with a gold star. Those who have neglected dental care are further urged to complete their treatments or are referred to the nurse for clinical attention if the parents are too poor to employ a dentist. The percentage of dental attention of the class is also used as another incentive. A comparison is made with the percentages of other rooms and the ratings of other schools.

To further this work in the schools it is absolutely essential to have the cooperation of the principals, the teachers, and the nurses, especially the teachers, because, if the children are not constantly reminded of the obligation of the certificates, they become negligent.

The work has proved that through the efforts and splendid cooperation of the teachers, it is possible to increase the percentage of a room to 100 per cent. This has been accomplished in a school situated in a "fair" district, where the examination was made early last fall. At the first examination, there was not one child in the entire room checked "O. K." but through the untiring efforts of the teacher, who succeeded in getting every child to go either to his own dentist or to the school clinic, the room had reached 100 per cent at the time of the first check up made after the Christmas vacation.

Another remarkable improvement was made in one of the lower grades in a school situated in a poorer district. Here the percentage at the first examination was only 19 per cent, and in three months it also had reached 100. One hundred per cent has also been attained by a higher grade in a very good district and by a class of blind children, so that it seems certain it is not a matter of age, conditions, or other circumstances that brings about such a marked improvement. Credit is largely due the teachers, the nurses, and the principals, who so willingly devoted their efforts.

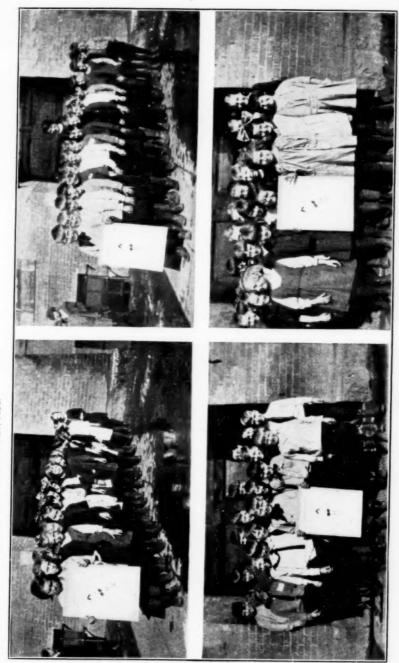
The accompanying illustrations, made from photographs of one of the 100 per cent rooms, show the "Brownie" chart, which indicates the percentage. Next year there will be a similar chart for each room, and this will constantly keep before the children their

steady increase.

Services of dental nurses intraining.—Another feature of the work has been the additional help rendered by the senior dental nurses of the University of Minnesota during the last quarter of the school year. The 15 girls who assisted in this work were divided into groups of 5. Each group put in two half-days a week for a period of three weeks. After several days given to observing methods and becoming thoroughly acquainted with the work, they assisted in the examinations and instruction. In this way considerably more work was accomplished, because the groups worked in separate schools, and as a result almost doubled the amount of work that would otherwise have been done. In addition, it was a wonderful opportunity for the student nurses to secure practical experience.

Prophylactic clinics.—Prophylactic treatment has been given during the year in the three dental clinics and at one school. The school clinic is on a part-time basis. The purpose of this clinic is to put the teeth of the children attending this and neighborhood schools in a thoroughly clean condition, so that further home care may be effective.

Arrangements were made for the cooperation with the school of dental hygiene of the University of Minnesota. The senior dental nurses of the above-named institution spent two half-days every week at the Clay clinic.



Public Health Reports, Vol. 38, No. 51, December 21, 1923.

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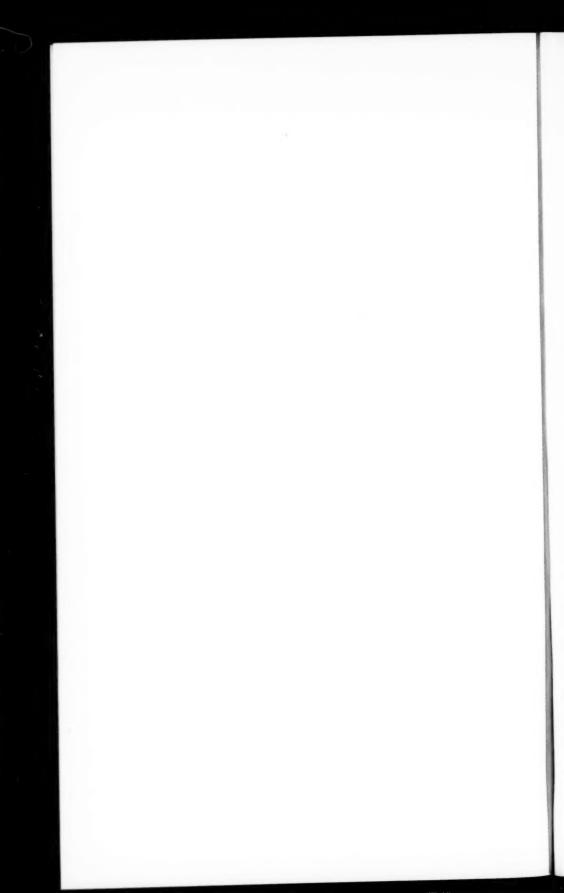
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The school clinic is equipped with adjustable chairs, foot-power engines, and instrument sterilizers. In cleaning the children's teeth, the mouth is first given a thorough examination, and all conditions found are checked on a history chart. While the hand method is used to a certain extent in cleaning the teeth, it has been found much more expedient to use the rotary rubber cups. If reparative work is needed, the child is recommended to visit the dentist.

The aim of this work is not only to clean the teeth, but to instruct the child in the proper care of the mouth. During the winter and spring quarters the senior dental nurses have been giving toothbrush drills to the children in groups. In addition to this, individual instruction is given to each child during the prophylactic treatment regarding the use of dental floss and the benefit of massage. In all, 811 children have received prophylactic treatment at the school clinic.

Educational suggestions.—With the aid of a larger number of dental nurses it will be possible to do more in educational work with reference to toothbrush drills and short talks in the schoolroom. In order to accomplish good results by means of toothbrush drills, however, it will be necessary to have a systematic program and the proper facilities for carrying it out. In addition to this, the sale of toothbrushes should be undertaken, in order to supply every child in need of a brush.

The principal incentive in the 100 per cent program thus far has been the coveted gold star. The "Brownie" charts are a great aid in arousing enthusiasm. However, something new and different should also be added. A little inexpensive button for "good teeth" would be a reward for which most children would work. Also the offering of some reward to the room as a whole, such as the presentation of a banner, or, better still, a half holiday, when it reaches 100 per cent would do much to stir up the interest, especially in districts where a button or gold star means nothing to the child. The higher grades, too, would be more enthusiastic over a reward of this kind.

Educational work should be carried into the homes by means of the distribution of appropriate literature and by talks to mothers' clubs.

Some good book on the teeth and their care should be used as a supplementary reader in all the rooms. Such a book is now being printed. This book will also be used to educate the parents as well as the children. Better results with the children are obtained when their parents are properly informed. At the present time many parents believe that the care of the children's teeth is not necessary.

Prophylactic clinics.—These clinics are, with the exception of the Clay clinic, operating in the same buildings as the reparative clinics. A total of 11,846 children received prophylactic attention in these clinics during the year.

Reparative clinics.—Three reparative clinics have operated on a half-time basis. Clerks, or dental assistants, are employed to assist the dentist and keep all the records. High-school girls are employed in this capacity and are on duty only for the time the reparative clinics are operating, from 1 to 4 p. m. each school day. This arrangement has worked to a good advantage in many ways. It relieves the medical nurse and allows her to take care of the children who are waiting for their turn. It has also worked well in cases where the regular medical nurse could not attend and was compelled to send a substitute. In many cases the substitute was not acquainted with the routine of the clinic and for this reason could not assist advantageously. Clinics have operated nearly to capacity throughout the entire year.

General considerations.—During the year an attempt was made to limit the work of the clinic to the children below the seventh grade; that is, the children from the kindergarten up to the sixth grade, both inclusive.

Free dental facilities have been restricted to the very poor, and an arbitrary limit of \$6 per week income per capita is adopted as the maximum family wage entitling the children to free dental attention. Although in some instances this may work a hardship, on the other hand there are more than enough children coming within this limit to keep the clinics fully occupied. Should the amount per capita be raised to as much as \$8 per week, many of the poorer children would suffer from lack of attention, because the present clinic facilities can only take care of a given number of children.

Special attention is given to the 6-year molar in the clinics, in the educational work, and by the medical nurses, because it is the first permanent tooth to make its appearance, it is the most important tooth in the child's mouth, and it is usually the first permanent tooth to decay.

Another important measure adopted during the year is the sale of toothbrushes at cost to all children. These brushes are sold by the medical nurses at the clinics and by the dental nurses.

MORTALITY FROM CANCER, UNITED STATES REGISTRATION AREA, 1922.

The Department of Commerce announces that compilations made by the Bureau of the Census show that 80,938 deaths were due to cancer in the death registration area in 1922, which comprised about 85.3 per cent of the total population of the United States, and if the rest of the United States had as many deaths from this cause in proportion to the population the total number of deaths from cancer in the entire United States was 95,000 for 1922, against a corresponding estimate of 93,000 for 1921.

The death rate from cancer in the registration area in 1922 was 86.8 per 100,000 population, as against 86 in 1921. Only five States show lower rates for 1922 than for 1921. In comparing the death rate from cancer in one State with that in another, the bureau uses "adjusted" rates in order to make allowance for differences in the age and sex distribution of the population, because, generally speaking, only persons in middle life and old age have cancer, so that a State with many old persons may be expected to have more deaths from cancer than a State with comparatively few old persons.

The highest adjusted cancer rate for 1922 is 106.9 per 100,000 population for the State of Rhode Island and the lowest is 53.1 for Tennessee. For a few States adjusted rates have been calculated separately for the white and colored populations. In this group of States the highest adjusted rate for the white population is 92.5 per 100,000 for Maryland and the highest for the colored population is 81.7, also for Maryland. The lowest adjusted rate for white population is 52.8 for Tennessee and the lowest rate for the colored population is 40.8 for Florida.

Deaths and death rates from cancer and other malignant tumors in the registration area (exclusive of Hawaii) and in the registration States.

	Num	ber of de	eaths.		Death ra	te per 10	0,000 pop	pulation.	
Area.	1922	1921	1920	Ad- justed,1			Crude.		
	1922	1921	1920	1922.	1922	1921	1920	1919	1918
Registration area	80, 938	76, 274	72,931	(3)	86, 8	86. 0	83. 4	80, 5	80. 3
Registration States of 1918 (including District of Co- lumbia)	75, 697	72, 590	69. 363	(3)	90, 2	87. 6	84.8	81.8	80.
California	4,477 720	4,010 718	3,800 691	95.1 71.4	121. 1 73. 8	111.7 74.7	109. 2 73. 0	105. 3 69. 2	101.3
Connecticut Delaware Florida (total)	1,521 211 556	1,377 179 514	1,403 198 510	95. 9 78. 1 58. 6	105. 0 92. 4 54. 3	96, 9 79, 1 - 51, 3	100, 6 88, 4 52, 1	94. 4 86. 1	94.
White	452 104	422 92	384 126	63, 5	65. 7 31. 0	63, 2 27, 6	59. 2 38. 0	48, 5 59, 1 28, 2	(1)
Reorgia (total)	1,182 791 391	(*)	(4)	(3) (3) (8)	39. 8 45. 1	(3)	(°) (°) (*)	(4) (4) (4)	(4)
dahollinois	243 6,440	6,152	5, 991	90.9	32. 2 52. 9 96. 1	93.0	(1) 91.8	(*) (4) 87, 6	(1)
ndiana Canses	2,855 1,425	2,735 1,412	2,645 1,283	76. 9 69. 6	95, 5 79, 6	92, 2 79, 3	89. 9 72. 4	87. 4 69. 2	88. 72.
White	1,337 1,198 139	1,326 1,184 142	1,364 1,222 142	55. 9 55. 6 57. 3	54. 6 34. 0 60. 6	54. 4 53. 7 61. 2	56. 3 55. 8 60. 5	52.6 51.6 61.5	53. 55. 54.
Louisiana (total)	1,109 742	975 665	888 578	76, 2 80, 7	60, 4 65, 3	53. 6 59. 3	49. 2 52. 3	49. 6 54. 7	49. 2 52. 1
Colored	367 964	310 899	310 942	68. 7 86. 3	52, 5 124, 4	44.3 116.5	44. 2 122. 4	41. 7 116. 2	43. 6

¹ The adjusted rate makes allowance for the differences in the age and sex composition of the populations; in the different States, and shows what the death rate would be if all States had the same proportion of males and females and the same proportion of the total population in each age group.
² The crude rate is based on total population and all deaths occurring within the given area.

^{*} Rate not computed.

⁴ Not added to registration area until a later date.

Deaths and death rates from cancer and other malignant tumors in the registration area (exclusive of Hawaii) and in the registration States—Continued.

	Num	ber of de	eaths.		Death ra	te per 10	00,000 po	pulation.	
Area.	4000			Ad-			Crude.		
	1922	1921	1920	justed, 1922.	1922	1921	1920	1919	1918
Maryland (total)	1,482	1,372	1,372	91, 2	99. 5	93, 1	94, 1	87.6	84.
White	1,296	1,203	1,200	92.5	104, 4	98.1	99. 0	92.4	89.
Colored	186	169	172	81.7	75. 0	68.5	70.0	63, 9	56.
Massachusetts	4,637	4,636	4, 469	98.4	116, 6	118,0	115.3	107.0	108.
Michigan	3,411	3, 336	3,099	81.1	87.7	87.8	83. 5	81.9	81.
Minnesota	2,317	2,178	2,293	90.0	93. 9	89.4	95. 4	89.1	83.
Mississippi (total)	800	749	686	56.0	44.7	41.8	38.3	37.6	(4)
White	429	385	348	58.6	50, 2	45.1	40, 6	42.9	(4)
Colored	371	364	338	53, 0	39, 6	38.9	36, 2	32.7	(4)
Missouri	2,947	2,900	2,630	75.0	85, 9	84.8	77.1	74.9	73.
Montana	343	315	282	69.6	57.8	54.7	50, 6	55, 9	53.
Nebraska	1,091	1.081	999	79.5	82.5	82.4	76.7	(4)	(4)
New Hampshire	611	533	521	91.8	136, 9	119.8	117. 4	108, 5	108,
New Jersey	3.021	3.033	2,760	90.5	91.1	93, 3	86, 6	87.2	81.
New York	11,697	11,182	10, 554	99, 2	109. 2	105.7	101.0	98, 7	97.
North Carolina (total)	1,228	1,120	1.017	58, 0	46.3	42.9	39. 5	39. 5	42.
White	899	815	767	57.4	48.4	44.6	42.6	42.1	45.
Colored	329	305	250	57.5	41.5	38.8	32.1	33.4	37.
Ohio	5, 549	5, 312	5, 171	79.9	92.3	89, 8	89, 0	85.7	85.
Oregon	820	759	734	85.5	101.0	94.8	93.0	88.1	84.
Pennsylvania	7,782	7,588	7,315	85, 2	86, 5	85, 4	83.4	80.9	78.
Rhode Island	751	678	606	106.9	121.1	110, 4	99.7	96. 5	95.
outh Carolina (total)	670	588	557	53.7	38,8	34. 4	32.9	33.6	34.
White	405	366	338	59.6	47.4	43.6	40, 9	39. 9	41.
Colored	265	222	219	46.1	30, 4	25. 5	25.3	27.7	28.
ennessee (total)	1,146	1,113	1,091	53. 1	48.2	47.1	46, 6	43. 2	44.
White	936	905	905	52.0	48,5	47.3	47.8	43. 3	44.
Colored	210	208	189	53.0	47. 0	46, 4	41.9	42.6	43.
tah	316	292	250	82.1	67.4	63.3	55.1	59. 5	52.
ermont	456	400	444	88, 0	129.4	113.5	126, 0	113.2	103.
irginia (total)	1,366	1,329	1,299	63. 3	57.6	56.6	55. 9	52. 3	53.
White	1,061	1,007	948	66. 5	63. 3	60.9	58, 2	56. 0	57.
Colored	305	322	351	52.6	43.8	46.4	50, 7	43.9	46.
Washington	1,281	1,192	1,123	84.1	90, 7	85, 8	32.1	77. 7	75.
Wisconsin	2,514	2,614	2, 335	81.7	92, 8	97.6	88.2	87.3	81.
Wyoming	97	(4)	(4)	(3)	46.9	(4)	(4)	(1)	(*)

Rate not computed.

4 Not added to registration area until a later date.

MORTALITY FROM TUBERCULOSIS, UNITED STATES REGISTRATION AREA, 1922.

The Department of Commerce announces that compilations made by the Bureau of the Census show that 90,452 deaths were due to tuberculosis in the registration area of the United States in 1922, with a death rate of 97 per 100,000 population. This is a drop of 2.4 since 1921, in which year the rate was 99.4 per 100,000 population.

Though 12 States show increases in rates for 1922, in 22 States there are decreases, indicating that the general trend is still downward.

To permit better interstate comparisons for the year 1922, adjusted rates based on the standard million population have been calculated. The highest adjusted rate from tuberculosis for 1922 is 172.6 per 100,000 population for Colorado and the lowest is 36.1 for the adjoining State of Nebraska. The high rate for Colorado should not be

ascribed to unhealthfulness of climate, but rather to the fact that the climate attracts those afflicted with tuberculosis.

For certain States adjusted rates have been calculated separately for the white and colored populations. In this group of States Tennessee has the highest adjusted rates for both white and colored (respectively, 121.8 and 299.8 per 100,000 population). adjusted rate from tuberculosis for white population is 54.5 for Mississippi, and this State and Florida each show the lowest rate for colored population (171.5 per 100,000 population).

Deaths and death rates from tuberculosis (all forms) in the registration area (exclusive of Hawaii) and in the registration States.

	Num	ber of d	eaths.	Do	eath rate	per 100,0	000 popu	lation,	
Area.	1000		1000	Adjust-			Crude.2		
	1922	1921	1920	ed,1 1922,	1922	1921	1920	1919	1918
Registration area	90,452	88, 135	99,916	(3)	97. 0	99. 4	114. 2	125.6	150.
Registration States (includ-									
ing District of Columbia)	61 773	09 008	93, 170	(3)	97.4	99. 0	114.0	124. 9	148.5
of 1918	81,772	81,986	93,170	(0)	91. 1	99.0	114.0	124.0	148.8
California	5, 881	5,422	5,555	144.5	159.1	151.1	159.6	175.3	186.
Colorado	1,789	1,775	2, 134	172.6	183.3	184.6	225.4	215.1	242.5
Connecticut	1,358	1,364	1,666	90,6	93, 7	95, 9	119.4	126.5	153.
Delaware	273	318	327	115.9	119.6	140.5	146.0	163.6	(4)
Florida (total)	1,032	959	1,021	101.4	100.8	95. 7 62. 4	101.1	101.8	(4)
White	446	417	435 586	61.3	64.8 174.5	162, 5	67. 1 176. 8	74. 9 161. 6	- 23
Colored	586	542	(4)	(8)	88. 0	(4)	(4)	(4)	(3)
Georgia (total)	2,613 963	(4)	(3)	(3)	51, 9	(4)	(4)	(4)	(9)
White	1.650	(6)	(3)	(2)	135, 9	(0)	(3)	(3)	(4)
daho	202	(4)	(4)	(3)	44.0	76	(6)	28	(4)
llinois.	5,620	5,617	6,588	80.1	83. 8	81.8	100.6	114.9	135.
ndiana	2,619	2,752	3, 201	81.6	87.6	92.9	108.8	114.1	140.
Kansas	786	772	855	42.9	43.9	43, 3	48.2	36.3	59.
Kentucky (total)	3, 253	3, 197	3,705	138, 3	132.8	131. 2	152.9	165.3	199.
White	2,567	2,424	2,851	121.6	115.6	109. 9	130, 3	143.1	169.
Colored	686	773	854	292.7	299.0	333, 1	363, 8	367. 8	463,
Louisiana (total)	2,198	2,228	2,550	125.7	119.8	122.4	141.2	143.9	185.
White	789	778	891	73.7	69.4	69.5	80.9	80.8	109.
Golored	1,409	1,450	1,656	208.0	201.7	207. 2	236, 2	241.7	302.
faine.	654	634	799	81.2	84.4	82.2	103. 8	103.4	121.
Maryland (total)	1,939	1,997	2, 139	127. 2	130. 2	135. 5	146.7	165.8	207.
White	1, 255	1, 252 745	1,337	98. 9 273, 7	101. 1 275, 7	102. 1 301. 8	110. 4 326. 6	129. 4 344. 2	163, 423,
Colored	3,732	3,870	4,412	90.0	93, 8	98.6	113, 8	128.0	159.
dichigan	2,644	2,755	3, 101	66, 5	68.0	72.5	83.6	85. 7	101.
dinnesota		1.875	2, 151	68.0	69. 5	77.0	89. 5	91.7	104.6
dississippi (total)	1,924	1.989	2,287	116, 4	107. 4	111.1	127, 8	136.0	(4)
White.	413	423	410	54.5	48.4	49.5	47.8	57.3	(4)
Colored	1,511	1,566	1,877	171.5	161.3	167. 2	201. 2	207.1	(4)
fissouri	3,258	3,182	3,644	90.7	94.9	93. 1	103.9	117. 2	144.
fontana	383	356	419	59.0	64.5	61.8	75.1	88.9	98.8
ebraska	483	487	561	36.1	36.5	37.0	43.0	(1)	(1)
New Hampshire	398	351	430	86.8	89. 2	78.9	97. 0	102.5	126.
lew Jersey	3,148	3,013	3,635	91. 2	95.0	93.6	114.0	127. 4	157.
New York	10,695	10,836	12,634	93.8	99.8	102.4	120.9	140. 9	167. 9
North Carolina (total)	2,716 1,318	2,739 1,266	3,004 1,491	115. 1 79. 7	192, 5 71, 0	104. 8 69. 3	116. 5 82. 8	83.0	94.
White. Colored	1,318	1,473	1, 513	198.5	176. 2	187. 4	194. 2	205. 9	238.
Ohio	5, 159	5,270	5,975	81.8	85. 8	89.1	102.8	114.6	133.
Oregon	581	608	703	68.6	71.6	76.0	89. 1	90.6	88.1
Pennsylvania	8.018	8, 197	9, 213	87. 7	89. 2	92.3	105. 0	119.1	151.6
Rhode Island	588	663	798	91.5	91.8	108.0	131. 3	148.8	181. 5

¹ The adjusted rate makes allowance for the differences in the age and sex composition of the populations in the different States and shows what the death rate would be if all States had the same proportion of males and females and the same proportion of the total population in each age group.
¹ The crude rate is based on total population and all deaths occurring within the given area.
¹ Rate not computed.
¹ Not added to registrative area until a later data.
¹ Not added to registrative area until a later data.

Not added to registration area until a later date.

Deaths and death rates from tuberculosis (all forms) in the registration area (exclusive of Hawaii) and in the registration States-Continued.

	Num	ber of de	eaths.	De	ath rate	per 100,	000 popu	lation.	
Area.	1000	1001	1000	Adjust-			Crude,		
	1922	1921	1920	1922.	1922	1921	1920	1919	1918
South Carolina (total) White.	1,891 425	1,901	2,031 540	123. 0 55. 1	109. 5 49. 7	111. 2 52. 4	120. 0 65. 5	135, 6 68, 0	144. 5
Colored	1.466	1.461	1.491	192. 1	168.0	168.0	172, 0	199. 0	215.
Tennessee (total)	3,520	3,304	3,860	157. 1	148.1	139. 9	164.6	169.0	206.8
White	2,195	2,039	2,451	121.8	113.7	106, 6	129.3	126.6	151.
Colored	1,325	1,265	1,409	299.8	296.8	282.0	312.6	344.9	432.
UtahVermont.	194 326	184 245	177 288	42.9 87.8	92.5	39, 9 69, 5	39. 1 81. 8	91.0	104.
VermontVirginia (total)	3.092	3,131	3,319	137. 5	130.3	133, 4	142.9	150. 1	183, 6
White.	1,457	1,423	1,545	91.4	86, 9	86.1	91.8	97. 5	126. 1
Colored.	1.635	1.708	1.774	216.6	234.8	245. 9	256, 2	272.0	315, 9
Washington	1, 104	1,150	1,346	75.0	78.2	82.7	98.4	103.0	103. €
Wisconsin	1,928	2,014	2,267	70.0	71.2	75.1	85. 6	84.1	94.4
W yoming	86	(4)	(4)	(1)	41.6	(4)	(4)	(4)	(4)

DEATHS DURING WEEK ENDED DECEMBER 8, 1923.

Summary of information received by telegraph from industrial insurance companies for week ended Dec. 8, 1923, and corresponding week of 1922. (From the Weekly Health Index, Dec. 11, 1923, issued by the Bureau of the Census, Department of

Commerce.	Week ended Dec. 8, 1923.	Corresponding week, 1922.
Policies in force	55,520,836	51,496,277
Number of death claims	10,430	9,810
Death claims per 1,000 policies in force, annual rate	9.8	9.9

Deaths from all causes in certain large cities of the United States during the week ended December 8, 1923, infant mortality, annual death rate, and comparison with corresponding week of 1922. (From the Weekly Health Index, Dec. 11, 1923, issued by the Bureau of the Census, Department of Commerce.)

City.	Week ended Dec. 8, 1923.		Annual death rate per	Deaths under 1 year.		Infant mor- tality
	Total deaths.	Death rate.1	1,000, corre- sponding week, 1922.	Week ended Dec. 8, 1923.	Corresponding week, 1922,	rate, week ended Dec. 8, 1923.
Total	6,965	12.4	12.8	882	894	
Akron, Ohio	34	8.5	7.5	3	4 2	36
Albany, N. Y.3		17. 3 20. 6	13. 5 16. 1	16	12	88
Atlanta, Ga		14.6	15.1	38	34	112
Birmingham, Ala		16.0	12.8	12	9	
Joston, Mass		13.9	15, 2	26	29	74
Bridgeport, Conn		9. 1	9, 8	3	0	74 41 42 53
Buffalo, N. Y	119	11.6	13.4	10	16	42
ambridge, Mass	30	14.0	16.5	3 7	7	
Camden, N. J. ³	35	14.7	12.0	7	6	110

<sup>Rate not computed.
Not added to registration area until a later date.</sup>

Annual rate per 1,000 population.
 Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1922. Cities left blank are not in the registration area for births.
 Deaths for week ended Friday, Dec. 7, 1923.

Deaths from all causes in certain large cities of the United States during the week ended December 8, 1923, infant mortality, annual death rate, and comparison with corresponding week of 1922. (From the Weekly Health Index, Dec. 11, 1923, issued by the Bureau of the Census, Department of Commerce)—Continued.

City.	Week ended Dec. 8, 1923.		Annual death rate per	Deaths under 1 year.		Iufant mor- tality
	Total deaths.	Death rate.	1,000, corre- sponding week, 1922.	Week ended Dec. 8, 1923.	Corresponding week, 1922.	rate, week ender Dec. 1923.
Chicago, Ill. ⁸	647 120	11.7	11.0	98	84	
Cleveland, Ohio 3	171	15. 4 10. 0	16. 2 10. 6	9	13	
Columbus, Ohio	73	14.6	12.3	6	6	
Dallas, Tex	43	12.6	10.9	2	5	
Dayton, Ohio	30 74	9. 5 14. 2	11.3 17.0	4	4 7	1
Des Moines, Iowa	38	14.1	11.0	0		
Detroit, Mich	219	11.5	10, 1	44	43	
Ouluth, Minn	20 25	9.8	6. 5 10. 5	2 2	2 2	
Fall River, Mass.3	27	11.6	20.3	3	8	
lint, Mich	14	6. 2	6, 5	0	1	
Fort Worth, Tex	34	12.3	14.1	6	6	
Jouston, Tex	39	7. 1 13. 1	12.7 12.9	6	10	
Aduston, Tex ndianapolis, Ind acksonville, Fla.	69	10.5	13. 1	10	8	
acksonville, Fla	35	18. 2	13.9	4	2	
ersey City, N. J	65 116	11.0	11. 8 13. 8	19	9	
Kansas City, Moos Angeles, Calif.	204	16.0	14.5	17	20	
ouisville, Ky	81	16. 4	13.4	6	4	
owell, Massynn, Mass.	22	10.0	13.7	5	6	
lemphis, Tenn	64	9.1	14. 4 15. 2	15	3 5	1
lilwaukee, Wis	82	8.8	9.8	15	15	
Inneapolis, Minn	89	11.3	11.7	10	9	
ashville, Tenn. lew Bedford, Mass	34	14.6	12.6	6	4 4	
lew Haven Conn	35	10.6	13. 2	3	4	
iew Orleans, La	163	21.0	20.1	11	31	
Rroux Rorough	1,250 142	11.0	11. 2 8. 8	161	157	
Brooklyn Borough	407	9.8	10.5	54	64	
Manhattan Borough	564	13.0	13. 2	84	67	
Queens Borough.	89 48	8.7	9, 2	7 2	10	
ewark, N. J.	105	12.5	14.0	14	15	
ewark, N. J. orfolk, Va. akland, Calif.	24	7.9	12.1	4	7	1
maha, Nebr	41	8.9	11.6	3	4	1
terson, N. J.	38	9.7	16. 1 15. 1	5 3	6 4	
niladelphia, Pattsburgh, Pa	533	14.5	16.8	55	75	1
ttsburgh, Pa	200	17.0	17.2	20	30	3
tosourgh, Flantitand, Oreg. ovidence, R. I. chmond, Va. ochestor, N. Y. Louis, Mo.	51 68	9.7	12. 0 13. 8	6	4 8	(
chmond, Va	48	13.8	19.6	14	10	17
ochester, N. Y.	64	10.5	8.7	9	4	7
Paul, Minn	215	13. 9 11. 6	12. 5 13. 0	16	13 .	3
It Lake City, Utah 3. n Antonio, Tex.	30	12.4	11.8	3	10	4
n Antonio, Tex.	52	14.7	14.9	16	11 .	
n Francisco, Califattle, Wash	144	13. 9 7. 3	16. 5 9. 1	13	7 5	7
okane, Wash	23	11.5	16. 5	2	3	4
ringfield, Mass.	28	10.1	14.1	3	4	4
racuse, N. Y	45 19	12.7	12.1	6	10 2	7 5
ledo. Ohio	53	10.3	10. 4	2	7	1
enton, N. J.	34	13.9	16.7	5	i	8
Ica, N. Y.	26 102	13.1	********	6 .	******	12
ilmington, Del	30	12. 2 13. 3	13. 3 9. 5	13	11	7.
ashington, D. C. ilmington, Del. orcester, Mass. onkers, N. Y	49	13.3	14.1	4	4 7	4
mbon N V	16	7.8	12.9	11	3	2

⁸ Deaths for week ended Friday, Dec. 7, 1923.

PREVALENCE OF DISEASE.

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.

UNITED STATES.

CURRENT STATE SUMMARIES.

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers.

Reports for Week Ended December 15, 1923.

ARIZONA.		CALIFORNIA—continued.	
C	ases.		ases.
Chicken pox	8	Smallpox:	
Diphtheria	9	Long Beach	11
Measles	17	Los Angeles	55
Mumps	3	Los Angeles County	17
Scarlet fever	21	Orange County	8
Tuberculosis	98	Scattering	21
Typhoid fever	1	Typhoid fever	15
ARKANSAS.		Typhus fever—Los Angeles	1
Chicken pox	15	COLORADO.	
Dengue	1		
Hookworm disease	1	(Exclusive of Denver.)	
Influenza	90	Chicken pox	13
Malaria	92	Diphtheria	20
Measles	43	Measles	98
Mumps	1	Mumps	25
Ophthalmia neonatorum	2	Pneumonia	3
Paratyphoid fever	1	Scarlet fever	23
Pellagra	1	Septic sore throat	6
Scarlet fever	5	Smallpox	4
Smallpox	12	Typhoid fever	7
Trachoma	2	Tuberculosis	52
Tuberculosis	19		02
Typhoid fever	13	CONNECTICUT.	
Whooping cough	19		
CALIFORNIA.		Cerebrospinal meningitis	1
		Chicken pox	131
Cerebrospinal meningitis—Los Angeles	1	Diphtheria	73
Diphtheria	320	German measles	3
Influenza	35	Influenza	7
Jaundice	3	Measles	209
Lethargic encephalitis-Stockton	1	Mumps	46
Measles	323	Pneumonia (lobar)	25
Poliomyelitis:		Scarlet fever	105
Hanford	1	Septic sore throat	4
Los Angeles	1	Typhoid fever	6
Los Angeles County	2	Tuberculosis (all forms)	36
Scarlet fever	260	Whooping cough	28

(3038)

DELAWARE.	Cases.	INDIANA—continued.	Corre
			Cases.
Chicken pox	6	Poliomyelitis—St. Joseph County	
Diphtheria	7	Scarlet fever	
Measles	4	Smallpox	
Pneumonia	1	Tuberculosis	29
Scarlet fever'		Typhoid fever	16
Wilmington	14		
Scattering	10	IOWA.	
Tuberculosis	14	Diphtheria	
Typhoid fever	3	Scarlet fever	94
Whooping cough	3	Smallpox	6
		Typhoid fever	2
FLORIDA.			
Diphtheria	34	KANSAS,	
Influenza	2	Chicken pox	141
Malaria	15	Diphtheria	83
Pneumonia	10	German measles	2
Scarlet fever	1	Leprosy	1
Smallpox	2	Measles	71
Typhoid fever	12	Mumps	11
GEORGIA.		Pneumonia	27
Chicken pox	5	Scarlet fever	89
Diphtheria	19	Septic sore throat	1
German measles	122	Smallpox	8
Hookworm disease	16	Tetanus	1
Influenza	. 15	Tuberculosis	19
Malaria	7	Typhoid fever	8
Measles	174	Whooping cough	69
Mumps	15		00
Pneumonia	16	LOUISIANA.	
		Anthrax	1
Scarlet fever	1	Diphtheria	36
Smallpox	6	Hookworm disease	
Tetanus	1		43
Tuberculosis (pulmonary)	10	Influenza	20
Typhoid fever	7	Malaria	7
Whooping cough	30	Measles	144
ILLINOIS.		Pneumonia	57
ILLINOIS.		Scarlet fever	9
Cerebrospinal meningitis-Cook County	1	Smallpox	17
Diphtheria:		Tuberculosis	39
Cook County	153	Typhoid fever	5
Kane County	13	-, ,	- 0
Rock Island County	11	MAINE,	
		Chieken pox	31
Scattering	87	Diphtheria	9
Influenza	27	German measles.	
Lethargic encephalitis—Knox County	1		3
Measles	516	Influenza	2
Pneumonia	251	Measles	44
Scarlet fever:		Mumps	21
Cook County	130	Pneumonia	4
Fayette County	10	Searlet fever	- 21
Kane County	12	Smallpox	1
Lake County	9	Tuberculosis	5
Vermilion County		Typhoid fever	- 2
	8	Whooping cough	32
Will County	9	The state of the s	0.0
Scattering	95	MARYLAND.1	
Smallpox	10	Chicken pox	147
Tuberculosis	180	Diphtheria	62
Typhoid fever	65	German measles.	9
Whooping cough	160	Influenza	32
INDIANA.			
	150	Measles	67
Diphtheria	173	Mumps	5
Influenza	25	Ophthalmia neonatorum	1
Measles	330	Paratyphoid fever	3
Pneumonia	12	Pneumonia (all forms)	92
1 Week ended Friday.			

MARYLAND—continued.	ases.	missouri-continued.	Cases.
	95	Scarlet fever	
Searlet fever	2		
Smallpox		Smallpox	
Tuberculosis	92	Trachoma.	
Typhoid fever	19	Tuberculosis	
Whooping cough	46	Typhoid fever	8
MASSACHUSETTS.		Whooping cough	68
Cerebrospinal meningitis	1	MONTANA.	
Chicken pox	481	Diphtheria	11
Conjunctivitis (suppurative)	14	Scarlet fever	16
Diphtheria	289	Smallpox	49
German measles	11	Typhoid fever	1
Influenza	6	NEW JERSEY.	
Lethargic encephalitis	1		
Malaria	1	Cerebrospinal meningitis	332
Measles	324	Chicken pox	159
Mumps	197	Diphtheria	19
Ophthalmia neonatorum	14	Measles	182
Pneumonia (lobar)	104	Pneumonia.	142
Poliomyelitis	10	Poltomyelitis	6
Scarlet fever	351	Scarlet fever	116
Septic sore throat	2	Trachoma	1
Smallpox	4	Typhoid fever	9
Trachoma	1	Whooping cough	74
Tuberculosis (all forms)	123	matooping cough	**
Typhoid fever	8	NEW MEXICO.	
Whooping cough	99	Chicken pox	10
		Diphtheria	10
MICHIGAN.		Measles	13
Diphtheria	205	Mumps	6
Measles	356	Pneumonia	1
Pneumonia	85	Scarlet fever	9
Scarlet fever	302	Tuberculosis	15
Smallpox	112	Typhoid fever	2
Tuberculosis	175	Whooping cough	2
Typhoid fever	11		
Whooping cough	101	NEW YORK.	
MINNESOTA.		(Exclusive of New York City.)	
Chicken pox	185	Diphtheria	219
Diphtheria	126	Influenza	17
Measles	178	Lethargic encephalitis	2
Pneumonia	6	Measles	802
Poliomyelitis	2	Pneumonia	172
Scarlet fever	298	Poliomyelitis	6
Smallpox	37	Scarlet fever	301
Tuberculosis	31	Smallpox	10
Typhoid fever	8	Typhoid fever	10
Whooping cough	5	Whooping cough	364
MISSISSIPPI		NORTH CAROLINA.	
Diphtheria	20		182
Poliomyelitis	1	Chicken pox	. 97
Scarlet fever	8	German measles	1
Smallpox	1	Measles	
Typhoid fever	2	Poliomyelitis	2
	-	Scarlet fever.	62
MISSOURI,	- 1	Smallpox	75
(Exclusive of Cape Girardeau.)		Trachoma	2
Cerebrospinal meningitis	9	Typhoid fever	11
Chicken pox	100	Whooping cough	344
Diphtheria	122	muoping congressessessessessessessesses	011
Influenza	10	OREGON.	
Measles	460	Chicken pox	52
Mumps	44	Diphtheria:	
Pneumonia	23	Portland	72
Poliomyelitis	3	Scattering	24

6 6 1

OREGON-continued.	ases.	WASHINGTON—continued.	ases.
	722	Diphtheria:	ases.
Measles	16	King County	15
Pneumonia	1 13	Seattle County	11
Scarlet fever	12	Walla Walla	13
Smallpox:	10	Scattering.	5
Columbia County	9	Measles	-
Scattering	4	Mumps	15
Tuberculosis	18	Poliomyelitis—Bellingham	1
Typhoid fever	11	Scarlet fever:	
Whooping cough	1	Cowlitz County	11
whooping cought	•	Spokane County	12
SOUTH DAKOTA.		Seattle County	13
OL!-1	28	Spokane	14
Chicken pox	9	Scattering	36
Diphtheria	115	Smallpox:	
Measles	47	Lincoln County	49
Mumps	2	Spokane	9
Pneumonia	33	Scattering	21
Smallpox.	2	Tuberculosis	2
Tuberculosis	4	Typhoid fever	3
Whooping cough	19	Whooping cough	2
w hooping cough	10		
TEXAS.		WEST VIRGINIA.	
Chicken pox	35	Diphtheria	16
Dengue	6	Scarlet fever	25
Diphtheria	61	Typhoid fever	1
Dysentery	1	WISCONSIN.	
Influenza	31	Milwaukee:	
Measles	286	Chicken pox	70
Mumps	21	Diphtheria	25
Paratyphoid fever	1	German measles	1
Pellagra	1	Measles	1
Pneumonia	14	Pneumonia	4
Poliomyelitis	2	Poliomyelitis	1
Scarlet fever	31	Scarlet fever	30
Smallpox	7	Smallpox	1
Trachoma	6	Tuberculosis	12
Tuberculosis	117	Whooping cough	21
Typhoid fever	4	Scattering:	
Whooping cough	4	Chicken pox	329
VERMONT.		Diphtheria	84
T E IL ALVATI		German measles	2
Chicken pox	21	Influenza	24
Diphtheria	6	Measles	410
Measles	129	Pneumonia	17
Mumps	1	Scarlet fever	247
Pneumonia	2	Smallpox	31
Scarlet fever	12	Tuberculosis	28
Smallpox	21	Typhoid fever	5
Whooping cough	60	Whooping cough	209
VIRGINIA.		WYOMING.	
Smallpoy Toronoll Country		Chicken pox	27
Smallpox—Tazewell County	1	Diphtheria	1
WASHINGTON.		Measles	78
		Pneumonia	2
Cerebrospinal meningitis—Tacoma	2	Scarlet fever	9
Chicken pox	93	Whooping cough	17
1 Deaths.			

Reports for Week Ended December 8, 1923.

DISTRICT OF COLUMBIA.		NORTH DAKOTA.	
	ases.	(cases.
Chicken pox	81	Chicken pox	18
Diphtheria	16	Diphtheria	19
Influenza	2	German measles	1
Lethargic encephalitis	1	Measles	220
Measles	9	Pneumonia	6
Scarlet fever	25	Scarlet fever	78
Smallpox	6	Smallpox	6
Tuberculosis	27	Trachoma	2
Typhoid fever	1	Tuberculosis	14
Whooping cough	11	Typhoid fever	3
		Whooping cough	7
Chicken nor	37		
Chicken pox	33	WYOMING.	
Diphtheria	165	Chicken pox	13
	11	Diphtheria	10
Mumps	69		99
Scarlet fever	-	Measles	99
Smallpox	2	Mumps	10
Tuberculosis	2	Scarlet fever	10
Whooping cough	3	Whooping cough	26

SUMMARY OF CASES REPORTED MONTHLY BY STATES.

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Pollomyelitis.	Searlet fever.	Smallpox.	Typhoid fever.
October, 1923.								-		
South Dakota	2	116			258		8	173	24	11
AiabamaArizona	4	266 19	286	392	690 43	16	1	136 55	13	73 1
Arkansas	1 2	105 34 66	355 2 17	362 2 125	208 36 291	26	2	76 94 9	29	70 12 30 47
Massachusetts	1 2 9 6	1, 151 149	23		1,096 310	3	40 8	1,018 157	10	3
Vermont Virginia	11	34 276	39		592 45			61 315	77 9	93

CITY REPORTS FOR WEEK ENDED DECEMBER 1, 1923.

ANTHRAX.

City.	Cases.	Deaths.
Pennsylvania: Philadelphia	1	

CITY REPORTS FOR WEEK ENDED DECEMBER 1, 1923—Continued.

CEREBROSPINAL MENINGITIS.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre-	. 2000. 1, 1020.		City.	Median for pre-		
	vious years.	Cases.	Deaths.		for previous years.	Cases.	Deaths
Connecticut:				New Jersey:			
Bridgeport Louisiana:	0	1	1	Bayonne	0	1	
New Orelans Maryland:	0	1	1	New York: New York.	4	,	
Baltimore	0	1	1	North Carolina:	•		
Boston	1		1	Wilmington Ohio:	U		
Fall River New Bedford	0	1		Toledo Texas:	0	1	1
Michigan: Jackson	0		1	San Antonio Wisconsin:	0		1
Minnesota:				Milwaukee	1	1	1
Minneapolis	0	1					

DENGUE.

City.	Cases.	Deaths.
Texas: San Antonio		1

DIPHTHERIA.

See p. 3050; also Current State summaries, p. 3088, and Monthly summaries by States, p. 3042.

INFLUENZA.

City. Weel ender Dec.	Ca	Cases. Deaths			Ca	Deaths,	
	Week ended Dec. 2, 1922.	Week ended Dec. 1, 1923.	week ended Dec. 1, 1923.	City.	Week ended Dec. 2, 1922.	Week ended Dec. 1, 1923.	week ended Dec. 1, 1923.
Alabama:				Illinois:			
Anniston		6		Alton			1
Birmingham		13	5	Champaign	2		
Mobile			1	Chicago	7	16	- 0
Montgomery			1	Danville	3		
Arkansas:				Decatur		1	
Little Rock		2		East St. Louis	1		
North Little Rock		2		Freeport			
California:		-		Springfield		1	1
Long Beach		1		Indiana:			
Los Angeles		14	******	Newcastle	1		
Oakland	1	4.4		Kansas:		*******	
San Diezo		2		Kansas City	1		
San Francisco	2	3	1	Kentucky:		*******	
Connecticut:	2	0	1	Louisville	1		
New Britain				Louisiana:		******	
	4		*******	New Orleans	1	3	
District of Columbia:				Maryland:	1	3	3
Washington	2	*******	******		14	0	
Florida:				Baltimore	14	9	4
Tampa	1	1		Cumberland		2	
Georgia:	-			Massachusetts:			
Atlanta	3	2		Arlington	1		
Macon	6			Beverly	1		*******
Savannah		6		Boston	2	3	1

CITY REPORTS FOR WEEK ENDED DECEMBER 1, 1923-Continued.

INFLUENZA-Continued.

	Cn	ses.	Deaths.		Ca	ses.	Deaths
City.	Week ended Dec. 2, 1922.	Week ended Dec. 1, 1923.	week ended Dec. 1,	City.	ended Dec. 2, De 1922. 192	Week ended Dec. 1, 1923.	week ended Dec. 1, 1923.
Massachusetts—Contd. Fall River. Fitchburg. Lynn. Springfield. Michigan: Detroit. Highland Park. Saginaw. Minnesota: Minneapolis. Missouri: Kansas City. St. Louis. Montana: Missoula. New Jersey: Bayonne. Newark. Passaic. Trenton. New York: Amsterdam. New York.	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 2 1 1 2 2 2 5 1 1 2 2 5 1 1 1 1 1 1	i	New York—Continued. Schenectady. Syracuse. Ohio: Cincinnati. Cleveland. East Cleveland. Steubenville. Oklahoma: Oklahoma: Pennyylvania: Philadelphia. Pittsburgh. Texas: Dallas. Fort Worth. Virginia: Richmond. West Virginia: Wheeling.	1 2	1	1

LETHARGIC ENCEPHALITIS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Connecticut: New London Illinois: Chicago Maryland: Baltimore	1 4	1 1 1	Michigan: Detroit New York: New York Texas: Galveston San Antonio.	2 5 1	3

MALARIA.

Georgia: Augusta Savannah	2	.1	Rhode Island: Cumberland	1	
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MEASLES.

See p. 3050; also Current State summaries, p. 3038; and Monthly summaries by States, p. 3042.

PELLAGRA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Arkensas: Little Rock	1		Texas: Fort Worth	1	

CITY REPORTS FOR WEEK ENDED DECEMBER 1, 1923—Continued.

PNEUMONIA (ALL FORMS).

City.	Cases.	Deaths.	City.	Cases.	Dea
Alabamat			Kentucky:		
Alabama: Anniston	12	3	Covington		
Birmingham	8	6	Henderson		
Mobile		1	Lexington		
Montgomery		4	Louisville		
Arkansas:			Louisiana:		
Little Rock	4		New Orleans		
North Little Rock	2		Maine:		
California:			Auburn		
Bakersfield	1		Bangor	1	
Berkeley	1		Lewiston	******	
Eureka	2	·····i	Fortiand	*********	
Glendale	2	i	Maryland.		
Los Angeles	22	15	Maryland: Baltimore Cumberland	39	
Oakland	22	7	Cumberland		
Pasadena	2		Massachusetts:		
Sacramento		2	Boston		
San Bernardino		1	Cambridge		
San Diego	4	1 3	Chelsea	6	1
San Francisco	7	4	Chicopee	1	
Santa Ana		1	Easthampton	2	
Stockton	6	2	Everett	1	
Colorado:			Fall River		
Denver		8	Haverhill		
Pueblo		2	Holyoke	********	
Connecticut:			Lawrence		
Bridgeport	1	3			
Bristol	1		Lynn Malden Medford		*****
Fairfield		2	Medford	1	
New Haven		4	Melrose		*****
Waterbury					
Wilmington		4	North Adams		
District of Columbia:			New Bedford	1	
Washington		15	Somerville		
Florida:		-	Southbridge		
Tampa		1	Springfield	1	
Georgia:			Wakefield	1	
Atlanta	22	17	Waltham		
Augusta		4	Watertown		
Rome	2		Woburn		
Savannah		9	Worcester		
Illinois:	3		Michigan:	2	
Aurora	160	45	Ann Arbor	2	
Chicago	160		Benton Harbor	- 4	
Cicero	2	1	Detroit	37	
Decatur East St. Louis		1	Flint	4	
Elgin.		i	Flint	4	
Herrin	1		Hamtramck	2	
Jacksonville		1	Hamtramck	2	
Kewanee		î	Ironwood		
La Salle			Jackson	3	
Murphysboro		1	Kalamazoo	2	
Oak Park	2	1	Muskegon	4	
Quincy	1		Pontiac	5	
Rock Island	1		Port Huron	1	
Rockford		1	Saginaw		
Springfield	5	4	Minnesota: Duluth		
ndiana:		1	Duluth		
Bloomington	********	3	Rochester		
Fort Wayne		3	St. Paul.		
Hammond		1	Missouri:		
Indianapolis		15	Kansas City	14	
Gary		13	St. Joseph		
Mishswaka		i	Springfield.		
Muncie		2	Nebraska:		
Muncie Newcastle		ĩ	Lincoln		
South Bend		3	Omaha		
Terre Haute		1	Omaha New Hampshire:		
owa:			Keene		
Burlington	3	2	Manchester		
Kansas:			New Jersey:		4
Atchison	2		Atlantic City	5 6	
Kansas City	4	·····i	Bayonne	0	
			Dicombed		

CITY REPORTS FOR WEEK ENDED DECEMBER 1, 1923-Continued.

PNEUMONIA (ALL FORMS)-Continued.

City.	,Cases.	Deaths.	City.	Cases.	Deat
7 - 7 - O - H 3			Ohio-Continued.		
New Jersey—Continued.		3			1
Elizabeth			Lancaster	*********	1
Englewood	4		Lorain	1	
Hackensack		1	Middletown		1
Harrison	1		New Philadelphia Niles	1	
Hoboken		2	Niles	1	
Jerson City	1		Sandusky		
Kearny	1		Toledo		
Newark	42	9	Youngstown		1
Orango		2	Oklahoma:		
		-	Oklahoma		1
Passaie		********	Oregon:		1
Paterson	4				
Perth Amboy		1	Portland		
Phillipsburg		1	Pennsylvania:		
Plainfield	2		Philadelphia	72	
Plainfield		2	Pittsburgh		
West Orange	1		Rhode Island:		
ew Mexico:			67 1 1 1	2	
		1	Pawtucket		******
Albuquerque	********	1			
ew York:	_		Providence		
Albany	5		South Carolina:		1
Auburn		1	Columbia		
Buffile	12	5	South Dakota:		
Cohoes		1	Sioux Falls		
Geneva		1	Tennessee:		I
Glens Falls			Memphis		1
Homes			Nashville		1
Hornell	1		Texas:		ł
Hudson	2				
Ithaca	1		Beaumont		
Lackawanna	3		Dallas		
Mount Vernon	2		El Paso		
New York	295	122	Fort Worth		
Olean	200	1	Houston		
Peekskill	1		San Antonio		
Dochastan	10		Waco		
Rochester		1	Utah:	********	
Rome	3				
Saratoga Springs		1	Salt Lake City		
Schenectady		1	Vermont:		1
Syracuse	23	6	Burlington		
Troy	2		Virginia:		
White Plains	3		Lynchburg		
Yonkers		1	Newport News		
rth Carolina:	-		Norfolk		
			Potorshurg		
Durham		2	Petersburg		
Raleigh		2	Portsmouth		
Wilmington		1	Richmond		
Winston-Salem		2	Roanoke	1	
orth Dakota:			West Virginia:		
Fargo		1	Bluefield		
uio:			Charleston		
Akron			Wheeling		
	0	1	Wisconsin:		
Ashtabula				0	
Barberton		1	Eau Chire	4	
Bellaire		2	Kenosha Madison	1	
Cambridge	1		Madison		
Canton		3	Milwaukee	5	
Cincinnati		13	Oshkosh		
		9	Racine		
Cleveland	40	7	Sheboygan		
Countbus Falls			Warran		
Cuyahoga Falls	1		Wausau		
			Wyoming:		
East Cleveland	2	1	Cheyenne		
Hamilton		2			

CITY REPORTS FOR WEEK ENDED DECEMBER 1, 1923-Continued.

POLIOMYELITIS (INFANTILE PARALYSIS).

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre-		k ended 1, 1923.	City.	Median for pre-		ended 1, 1923.
	years.	Cases.	Deaths.		vious years.	Cases.	Deaths
California: Berkeley Long Beach Los Angeles Oakland Connecticut: Bridgeport District of Columbia: Washington Illinois: Chicago Massachusetts: Boston Lawrence Lowell	0 0 0 0 0 0 0	2 1 2 2 1 1 2 2 2 1		New Jersey: Newark. New York: Middletown. New York Syracuse Pennsylvania: Philadelphia.	0 0 2 0 0	1	

RABIES IN ANIMALS.

City.	Cases.	City.	Cases.
California: Los Angeles. Missouri: Kansas City.	6 2	Tennessee: Memphis	1

CITY REPORTS FOR WEEK ENDED DECEMBER 1, 1923--Continued. SCARLET FEVER.

See p. 3050; also Current State summaries, p. 3038, and Monthly summaries by States, p. 3042.

SMALLPOX.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre-		c ended 1, 1923.	City.	Median for pre-		ended , 1923.
City.	years.	Cases.	Deaths.	,	vious years.	Cases.	Deaths
California:				New York:			
Long Beach	0	1		Albany	0	9	
Los Angeles	0	41		North Carolina:			
Pasadena	0	1		Durham	0	1	
Riverside	0	2		Ohio:			
Santa Ana	0	ī		Cleveland	2	2	
District of Columbia:				Dayton		3	
Washington	0	12		Lancaster	0	1	*******
Georgia:	0			Middletown	ő	2	
Atlanta	4	19		Youngstown	0	3	
Indiana:		10	******	Zanesville	0	11	
*************	0	1		Oregon:	0	**	*******
Indianapolis	3	1		Portland	3	7	
	3	2		Tennessee:	9		
Muncie		16	******	Knoxville	0	1	
	0	10	*******	Texas:	0		
lowa:		1		Beaumont	0	3	
Burlington	0	1	*******	Fort Worth	0	1	
Clinton	0 2	1	******	Utah:	0		
	0	3		Salt Lake City	3	2	
Davenport	0	3	*******	Vermont:	0	- 4	*******
Michigan:	0	49			0	7	1
Detroit	2	17	******	Burlington	0		
Highland Park		7	******	Virginia:		2	
Holland	0	2		Lynchburg Washington:	0	2	*******
Ironwood	0	1				1	
Jackson	0	13	*******	Aberdeen	2	2	
Pontiae	0	2		Seattle	1		*******
Minnesota:				Spokane	25	17	*******
Duluth	0	1		Tacoma	0	2	******
Mankato	0	2		Yakima	0	1	
Minneapolis	4	2		Wisconsin:	-		
St. Paul	12	12		Green Bay	0	1	
Nebraska:				Milwaukee	1	1	******
Omaha	2	1		Superior	0	1	

TETANUS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Connecticut: New Haven		1	Pennsylvania: Philadelphia	1	1

TUBERCULOSIS.

See p. 3050; also Current State summaries, p. 3038.

CITY REPORTS FOR WEEK ENDED DECEMBER 1, 1923-Continued.

TYPHOID FEVER.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre- vious		k ended 1, 1923.	City.	Median for pre- vious		ended 1, 1923.
	years.	Cases.	Deaths.		years.	Cases.	Deaths
Alabama:				Missouri:			
Anniston California:		1		Cape Girardeau St. Louis	0	3	
Los Angeles		6		Montana: Missoula	0	1	
Oakland Richmond	0	1		New Hampshire:	0	1	
San Bernardino	0	1		Manchester	0		1
San Diego San Francisco	0	1	1	New Jersey: Atlantic City	0	1	
Stockton	Ô	1	i	New York:	1	î	
Denver	0	1		Buffalo	2	2	1
Pueblo Connecticut:	0	1		New York	17	10	
Hartford	0	1		Syracuse	i	1	1
Waterbury Delaware:	0	4	1	White Plains North Carolina:	0		
Wilmington District of Columbia:	1	2		Wilmington		1	
Washington Georgia:	4	5	1	Columbus Cuyahoga Falls	0	1	
Atlanta	0	1		Lorain	0	i	
Savannah	0	1		Mansfield	0	1	
Illinois:	7	77	1	YoungstownOklahoma:	0	1	1
Chicago Evanston	0	2		Oklahoma	1	2	1
Jacksonville	0	3		Oregon:			
QuincyIndiana:	0	2		Portland Pennsylvania:	1	3	
Fort Wayne	0	45	2	Lancaster	0	1	
Hammond	0	1		Philadelphia	7	3	
Indianapolis Logansport	0	2 2		Pittsburgh Steelton	1 0	1	
lowa:	0	-		Sunbury	0	î	
Council Bluffs	0	1		York	0	2	
Kentucky: Covington	0		2	Rhode Island: Pawtucket	0	1	
Lexington	1	1		Tennessee:			
Louisville	2	3		Memphis	1	1	1
Louisiana: New Orleans	1	1		Texas: Dallas	0	4	
Maine:		-		El Paso	0	1	
Bangor	0	1		Fort Worth	0	3	
Maryland: Baltimore	3	1	1	Houston Waco	0		1 2
Frederick	0			Virginia:			
Massachusetts:				Charlottesville	0	1	
Belmont Boston.	0 2	1		Richmond	0	2 2	
Cambridge	0	î		Washington:	0	-	
Fall River	0	1		Seattle	0	1	******
North Adams	0	1	1	Tacoma	0	2	******
Springfield Watertown	0	1	*******	West Virginia: Fairmont	0	1	
Michigan:				Wisconsin:			
Detroit	4 0	6	1	Appleton	0	2	
Grand Rapids Muskegon	0	1	1	Manitowoe	0		
dinnesota:				Wausau	0		
Minneapolis	2	1					

TYPHUS FEVER.

City.	Cases.	Deaths.	City.	Cases,	Deaths.
California: Los Angeles	1	*******	Georgia: Savannah	1	*******

CITY REPORTS FOR WEEK ENDED DECEMBER 1, 1923—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

	Popula-	Total deaths	1	htheria.	Me	asles.		arlet ver.		iber- losis.
City.	tion Jan. 1, 1920.	from all causes	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Alabama.										
AnnistonBirmingham	17,734	59	7				1			
Mobile	178,806 60,777	15		1	*****		2	*****	4	2
Montgomery	60,777 43,464	16			2					i
Arkansas: Fort Smith	28,870		1							1
Little Rock	65,142	*******	3		2	*****	3	******	2	
Little Rock	14,048		1		î		1		-	******
California:	98 900									-
Alameda Bakersfield Berkeley	28,806 18,638	3	1	*****	1	*****	4 2	*****		
Berkeley	56,036	11	8		14		4		2	i
Eureka	12,923	6			2				3	1 1
Glendale Long Beach	13,536 55,593	16 27	2	1	2		2	*****	2	5
Los Angeles	576,673	208	78	2	5	*****	46	1	50	20
Oakland	216, 261	60	15	3	4		19		*****	2
Pasadena	45,354 16,843	16	1	*****	2		2			
Riverside	19,341	4 7	3		2	*****	3	*****	3	*****
Sacramento	65,908	27	1	1			2		1	4
San Bernardino San Diego	18,721 74,683	10 21	5 8				6	*****		3
San Francisco	506,676	135	66	5	128	1	5 28		3 16	10
Santa Ana	15,485	9	2	1	120		20		10	10
Santa CruzStockton	10,917 40,296	1					1			
Colorado:	40,296	13	*****	*****	4		10		2	
Denver	256, 491	51	22		3		17			6
Greeley	10,958 43,050	.1		*****						
Trinidad	10,906	11	1	*****	3	1	4		4	1
Connecticut:				******	9	-		******		
Bridgeport	143,555	27	9	1 .			10		8	2
Fairfield (town)	20,620 11,475	2 2	1	*****	*****	*****	2			*****
Fairfield (town) Hartford Manchester (town)	138,036	8	7	*****	1	*****	9	******	3	i
Manchester (town)	18,370 10,193	4	1							
New Haven	162, 537	34	3	· · · · ·	1	****	*****		*****	
New London	25,688	8	9		1		6		7	1
Norwich (city)	25,688 22,304 91,715	5	1 .				2			*****
Waterbury	91,715	25	8	1 .			12		5 .	
Wilmington	110, 168	25	7 .		1 .		19	1		
District of Columbia:										
Washington	437, 571	139	17				30	1	20	9
St. Petersburg	14,237 51,608	. 8			6 .		1 .			
Tampa	51,608	15	3 .		5 .		1 .			1
leorgia: Albany	11,555 .				1					
Atlanta	200,616	85	4	1	43	2	6		5	4
Augusta Brunswick	200,616 52,548	30	1	1	1 .					i
Lagrange	14, 413	2 -								****
Macon	52,995	******	1 :	*****	1 :		1 .		2 .	*****
Rome	17,038 52,995 13,252	******			29 .					*****
Savannahlaho:	83, 252	39	2 -	*****	11 .	*****	1 .	****	3	2
Boise	21,393	5 .			1		1 .	1		
Pocatello	15,001	1 .								*****
linois: Alton		1					-			
Aurora.	24, 682 36, 397	8	6 .		1		3 .		1 .	
Berwyn	14, 150	2 .	10		6		3 .		1	····i
Blue Island	28,725	3 .			1		3 .			
Controlle	28,725 11,424 12,491	5 5	2	*****	1					
						1				
Centralia Chicago	2,701,705	570	143	11	42		86	9	130	33
Chicago. Cicero. Decatur.	2,701,705 44,995 43,818 66,767		143	11	42		86 1 4	2	139	33

CITY REPORTS FOR WEEK ENDED DECEMBER 1, 1923—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Total deaths	1	theria	Me	asles.		arlet ver.	cu	iber- losis.
City.	tion Jan. 1, 1920.	from all causes.		Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Illinois-Continued.										
Elgin	27, 454	6			. 4				2	
Evanston	37, 234 10, 768	4	2				4			
Forest Park	10,768	1 8	1						····i	
Galesburg	19,669 23,834	6	1		3	*****	*****		1	****
Jacksonville	15,713	12							4	*****
Kewanee	15,713 16,026 13,050	6			2		1		1	
La Salle	13,050	1					1			
MurphysboroOak Park	10,703 39,858	9	2		3	*****	1 4			
Quincy	35, 978	9	-		i	*****	1	******	1	
Quincy Rock Island	35, 978 35, 177	6	9	.1	76			******		
Rockford	65,651	15								
SpringfieldIndiana:	59, 183	16	3	*****			2		7	
Anderson	29,767	4			67		3			
Bloomington	11,595	6	1		01	*****	0	*****		
Crawfordsville	10, 139	4					3			
Elwood	10,790 85,264	3		*****	31					
Evansville	85, 264	********	9		*****	*****	8			
Frankfort	86, 549 11, 585	25	7	1	9		6	1		
Gary	11,585 55,378	10	9	*****		*****	9	*****	*****	****
Hammond	36,004	8	1				7			
Huntington	14,000 314,194 30,067	4	1	*****			2			
Indianapolis	314, 194	108	13	*****	2	*****	2		1	
KokomoLa Fayette	22, 486	4 3	2	*****		*****	*****	*****	1	
Logansport	21,626	6	1		*****	*****		*****	1	****
Michigan City	19,457	2	3				2			
Mishawaka	15, 195	6					2		2	
Muncie	36, 524	14	1							
Newcastle	14,458 26,765	2 0	1	*****	1	*****	1	*****		
South Bend	70, 983	17	8	*****	1	*****	19			****
Terre Haute	66,083	16	1				4		*****	
owa:										
Burlington	24,057	11	3	1						
Cedar Rapids	45, 566 24, 151	******	5	*****	*****	*****	3	*****	*****	
Council Bluffs	33, 162	6	1	*****	*****	*****	2			****
Davenport	36, 162 56, 727		8	******	52					
Dubuque	39, 141	20	7				1	*****		
Iowa City Muscatine	11,267	*******	1	*****	*****	*****	4	*****		
Ottumwa	16,068 23,003	8	2	*****	2			*****		
Sioux City	71,227		6		73	*****	5	*****		****
Waterloo	36, 230						6			
ansas:										
Atchison	12,630	*******	*****		27					****
Coffeyville	13,452 10,693	1 1		*****	2	*****	1		1	****
Hutchinson	23, 298		******	*****	1	*****	1			****
Kansas City	23, 298 101, 177		3		8		6		3	
Lawrence	12,456	1								
Parsons	16,028 50,022 72,217	*******	7		*****		1			****
Wichita	72 217	9 28	13	*****	*****	*****	3	*****	2	
Centucky:	1	-	10	*****	*****			*****		****
Covington	57, 121 12, 169	12					13			
Henderson	12, 169	7					1	1		
LexingtonLouisville	41,534	18	2 7		2		1			
Owensboro	234, 891 17, 424	64	-		1	*****	6	1	9	
ouisiana:	, "						1			
New Orleans	387, 219	163	21	3	8		7		15	
Shreveport	43,874	20			36		1			
faine:								-		
Auburn	16, 985	5								
Bangor	25,978 14,731	4	1		1					
Biddeford	18,003 31,791	1	1		1		******			
Lewiston	31, 791	7 1	i		i				3	

CITY REPORTS FOR WEEK ENDED DECEMBER 1, 1923—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Total deaths	Diph	theria	Mea	asles.		arlet ver.		ber- losis.
City.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Maine-Continued.										
Portland	69, 272 10, 691	20	3							
Sanford (town)	10,691	3	1						3	
Waterville	13, 351		1	*****	4					
Maryland:	man con	907			-		1		-	1 .
BaltimoreCumberland	733,826	225 14	18	1	30		42		21	2
Frederick	29, 837 11, 066	5	3	*****			1			*****
fassachusetts:	,000	1		*****				1		1
Amesbury (town)	10,036	4								
Amesbury (town)	18,665	8	1				1			
Attleboro	19, 731	7								
Belmont (town)	10,749 $22,561$	3			1					
Beverly	22,561	4	1		3		1			
Boston.	748,060	183	52	5	46	*****	84		21	1
Braintree (town)	10,580 37,748 109,694	4				*****				
Brookline	37,748	7			8		8	1		
Cambridge	109,094	32	4		1		13	1	2	
Chelsea	43, 184	14	1		3	*****	6		3	****
Clinton	36, 214 12, 979	11						*****		
Danvers	11, 108				6				2	
Dedham	10,792	2	*****				*****		-	
Easthampton	11, 261	-	1	*****			1		*****	
Easthampton	11, 261 40, 120		5		1				3	
Fall River	120,485	24	5	1	2		4		2	
Gardner	16, 971	2	1		3					
Greenfield	15,462	1								
Haverhill	53,884	12	4				2		2	
Holyoke	60, 203	13	6		6		1		1	
Lawrence	94, 270	23	6		5		4		1	*****
Leominster	94, 270 19, 744 112, 759	4					3			
Lowell	03 149	21	3		1		3		6	
Lynn	93,148 49,103 39,038	20	3	*****	2		4			
MaldenMedford	39, 038	8	5	*****	4		4 2		1	
Melroce	18.904	6	1				4			
New Bedford	121, 217	20	2				1		6	*****
Newburyport	15,618	3	ĩ	000000					0	
New Bedford. Newburyport. Newton.	121, 217 15, 618 46, 054	8	1	1	1		3		1	
North Adams	22. 282	11								
Northampton	21, 951 19, 552 41, 763	8					3			
Peabody	19,552	2	1				5			
Pittsheld	41,763	11	6	1	38				3	
Plymouth	13,045	2								
Quincy	47,876 28,823	3 7	3		3		2		1	
Salem	42,529				18		*****	*****		
Somerville	93,091	27	4	*****	4		14	*****	2	
Southbridge	14, 245	6	1		i i				-	
SouthbridgeSpringfield	14, 245 129, 614	31	3	1	1		5		6	
Taunton	37,137	7			3 .					
Wakefield	13,025	3							1	
Waltham	30,915 21,457	11	12	1	2		1		2 .	
Watertown	21,457	5	1		17		1			
Webster	13, 258	5	2				1			
West Springheid	13,443 18,604	5								
Westfield Winchester	10,485									
Winthrop.	15, 455	6					3		*****	
Woburn	16, 574	7			20000					
Worcester	16,574 179,754	53	19	2			19		4	*****
chigan:	,	~		- 1			10		.	3
Ann Arbor	19,516	18			1 .		2			
Battle Creek	36, 164	2	2		1 -		8	2	1 .	
Denton Harbor	12, 233 993, 678	14	2 .				5 .			
Detroit	993,678	212	72	4	80	1	81 .		35	17
Flint	91,599 137,634 48,615	31	20	4	14 -		4	1	6 .	
Grand Rapids	137,634	36	7 .		1 -		10 -		7	1
Hamtramek	48,615	10	3	1	2 -					
Highland Park	46, 499	7	2 .		- 3 -		4 -			1
Holland	12, 183 15, 739 10, 500	*****	1 .			*****	2 -	*****		
Ironwood	15,739	9 .	1				3 -			
Ishpeming	10,500	0	1 .		4 1.		11.			

CITY REPORTS FOR WEEK ENDED DECEMBER 1, 1923-Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS-Continued.

Diphtheria. Measles. fever. culosis. Total Populadeaths City. tion Jan. 1, 1920. from Deaths. all Deaths. Denths causes. Cases. Michigan-Continued. Jackson..... 48,374 1 Kalanrazoo. Marquette.... 48, 487 12, 718 36, 570 34, 273 22 19 10 3 SS Muskegon..... 13 Pontiac.... 3 à Port Huron..... 25,944 61,903 11 i Ġ Saginaw..... 17 5 6 Sault Ste. Marie..... 2 12,096 Minnesota: 98, 917 15, 089 12, 469 380, 582 Duluth.... 27 1 13 Hibbing.... 3 5 Mankato.....2 Minneapolis..... 2 61 41 Rochester.... 13,722 15,873 2 15 St. Cloud..... St. Paul....2 6 i 234,698 63 12 19 14 Winona.... 19, 143 5 Missouri: 10, 252 11, 686 29,902 324, 410 77, 939 772, 897 Cape Girardeau..... 1 2 1 Independence..... 2 6 Joplin..... Kansas City... 9 91 15 3 24 Saint Joseph..... 31 31 41 Springfield..... 39,631 8 Montana: 15,100 24, 121 12, 037 2 2 1 Helena.... 6 Missoula..... 12,668 Nebraska: 16 11 15 Omaha.... 191,601 54 2 Nevada: Reno... 12,016 3 New Hampshire: Berlin..... Concord..... 16, 104 4 22, 167 13, 029 11, 210 î 6 Dover.... 2 Keene..... Manchester.... 3 53 3 78,384 14 New Jersey: Asbury Park 1..... 12,400 50,707 76,754 Asbury Park
Atlantic City...
Bayonne.
Bloomfield.... 8 5 22,019 116,309 28 Camden..... 34 26, 470 50, 710 95, 783 22 East Orange..... 4 22 1 2 i Elizabeth..... Englewood.... 10 11,627 19,381 17,667 15,721 î 1 4 Harrison..... 68, 166 298, 103 Hoboken. 4 15 Jersey City..... 11 16 26,724 28,810 12,548 2 1 Montchir..... 2 2 Morristown..... 414,524 23 Newark..... Orange..... 33, 238 63, 841 a 4 2 11 Passaic..... Paterson..... 16 135,875 41,707 i Perth Amboy..... 3 2 16,923 Phillipsburg..... 6 1 Plainfield.... 3 3 1 11,042

10, 174 119, 289

20,651

31

1 6

1 2

3

Summit....

Trenton... Union (town)... West New York....

West Orange.....

^{29,926} 1 Issue of Dec. 7 should have shown 2 cases scarlet fever instead of 2 deaths.

CITY REPORTS FOR WEEK ENDED DECEMBER 1, 1923—Continued.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS-Continued.

	Popula-	Total	Diph	theria.	Mea	isles.		rlet ver.		ber- osis.
City.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Casas.	Deaths.
New Mexico:										
Albuquerque	15, 157	13	1		1		1	*****	2	1 5
New York: Albany	113,344		30		6		22		2	
Amsterdam	33,524	11	4	1	9		4		*****	
Auburn	33,524 36,192 506,775	17	28	1	4		35		21	
Buffalo	22,987	103	20	1	20		33		21	,
Geneva	14,648	4								
Glens Falls	16,638 15,025	8	1							
Hornell	15,025	2	****			*****			2	
HudsonIthaca	11,745 17,004	9 7	2	*****		*****			1	1
Leckawanna	17,918	4	1	1	8					
Lockport	17,918 21,308	5			34		5		1	
Middletown	18, 420						1		1	*****
Mount Vernon New York	42,726 5,620,018	1, 183	181	12	201	2	92	2	1 153	18
Newburgh	30, 336	6	201		201		1			1
Niagara Falls	30, 336 50, 760	10	2		12				3	2
North Tonawanda	15, 482	5	1		1		4			
OleanOssining	20,506	10			1	*****	13	1		
Peekskill.	15, 868	5	1				1		1	1
Rochester	10,739 15,868 295,750	69	11		1		5	1	16	
RomeSaratoga Springs	265 3441	12	8		48	1	4			1
Saratoga Springs	13, 181 88, 723 171, 717 72, 013	10	18	*****	45	*****	1 9	*****	3	*****
Schenectady Syracuse	171, 717	46	7		37	2	34	*****	8	1
Trov	72,013	25	9		47		1		2	
White Plains	21,031	4			5				1	
Yonkers North Carolina:	100, 176	29	7	1			1		*****	4
North Carolina: Durham	21,719	3	3							
Raleigh	24, 418	10					3		1	
Rocky Mount	24, 418 12, 742	7								
Salisbury	13,884	2			2				*****	
Wilmington Winston-Salem	33, 372 48, 395	13 21	1 2	1	44	1	1		1	
North Dakota:	40,000	21	-						-	
FargoGrand Forks	21,961	6								2
Orand Forks	14,010						2			
Akron	208, 435	25	13				3			
Alliance	21, 003 22, 082	5	3				2			
Ashtabula	22,082	4					1			
Barberton	18,811	5	1				2 4			
Bell vire	15,031	2 5	1		i		5			
Cambridge	13, 104 87, 091 15, 831	16	21		4		3		1	
Chillicothe	15,831	4	1							
Cincinnati	401, 247	142	13 27	1	23 20	1	19 37	1	11 31	11
Cleveland Heights	796, 841 15, 236	159	41	1	20		1		91	10
Columbus	15, 236 237, 031	84	19				15			10
Cuyahoga Falls	10, 200						1			
Dayton. East Cleveland. East Liverpool. Fast Youngstown.	152, 559 27, 292 21, 411	35	11				10		2	
East Livernool	21, 293	2	4				1		1	
Fast Youngstown.	11, 237	2								
r muray	17,021	3					1			
Fremont	12,468	3					3			
Kenmore	39,675 12,683	6	1							1
Lancaster	14, 706	5	1				1		*****	
Lima	41, 326	9	2				i			1
Lorain	41, 326 37, 295 27, 824		2				18			
Mansfield	27,824	4					1			
Martins Ferry	11, 634 23, 594	4	2	*****			2		*****	·····i
New Philadelphia	10, 718 26, 718		1		50		î			
Newark	200	5	i		1000		2			1

¹ Pulmonary only.

CITY REPORTS FOR WEEK ENDED DECEMBER 1, 1923—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Total deaths	1	htheria	Mo	easles.	1	ever.		uber- ilosis.
City.	tion Jan. 1, 1920.	from all causes.		Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Ohio-Continued.										
Niles	13,080		. 1					.		
Niles Norwood	94 000	0	l i					1		
Piqua	15.044	8	i				**	1		
Salem	10 305	3								
Sandusky	15, 044 10, 305 22, 897	111					*****			. 1
Springfield	641, 1441	15	3				. 1			* *****
Steubenville	98 508	6	2		. 1			2		-
Tiffin Toledo	14, 375 243, 164 132, 358 29, 569	4			-					
Toledo	243, 164	63	21	2	4		. 2			* *****
Youngstown	132, 358		10			1	. 10		2	1 2
Zanesville	29,569	9	3						" "	1 4
Oklahoma:		1	-				1	* *****	*****	
Guthrie	11,757 91,295		2	1			. 3			
Oklahoma	91, 295	26	5	1	1		1 3		. 1	
Shawnee	15, 348	3			î	1	1 1		1	*****
Tulsa	72,075		1		1		1 4	100000	*****	
Oregon:			1	1		1	1 3	1		
Portland	258, 288	58	24	3	503	1	. 3		. 5	1
Pennsylvania:		1		1	000		- 0	*****	- 0	1
Allentown	73,502		6	1			. 3		. 2	
Altoona	60,331		7		1		2		4	*****
Ambridge	73,502 60,331 12,730 12,802		3		1	*****	21		- 3	*****
Beaver Falls	12,802				6		- 21		1	
Bethlehem	50,358		10		4		13		7	*****
Braddock	20, 879		10	*****	*		1 1		- 6	*****
Bristol	10, 273 23, 778 10, 632		2							
Butler	23, 778		-				1			
Canonsburg	10,632		3	******	1		i			
Carbondale	18,640		1		4					
Carnsie	10,916		î				3			*****
Chambersburg	13, 171			*****	1	*****	4	*****		*****
Chester	58,030		1							*****
Coatesville	14,515						1		******	
Connellsville	13, 804						4		******	
Donora	14, 131		1	*****			1 2		******	
Dubois	13,681			******		*****	1		*****	
Dunmore	20, 250		1				1 *			*****
Easton	33 813		î		1		1	*****	2	
Erie	93, 372		î	*****			6	*****	7	*****
Farrell	93, 372 15, 586 15, 033		17	*****			3	*****		
Greensburg	15, 033		2	*****			1			*****
Harrisburg	75 917 1		ĩ	*****	1		2	*****		
Hazelton	32, 277		2				-			
Homestead	20,452		1		*****	*****	5	*****	*****	*****
Jeannette	10,627	*******	2	*****	******		9	*****		******
Johnstown	67,327		2	*****	*****		1	*****		*****
Lancaster	53 150 1		3		3	*****	5	*****		*****
Lebanon	24, 643 16, 713 15, 599		12	*****	1		7	*****	2	
Mc Kee's Rocks	16,713				*		i		1	*****
Mananov City	15, 599		1					*****	1	
Monessen	18, 179		î				1		*****	******
Monessen New Castle New Kensington	44, 938		î					*****	*****	
New Kensington	11,987 32,319 14,928		1		*****		*****		*****	*****
Norristown	32, 319		3	*****				*****	*****	
North Braddock	14,928		1					*****		*****
Oil City	21 274		-				*****	*****	1	
Philadelphia Pittsburgh	1,823,779 588,343 16,500	426	95	5	25	2	59	*****	60	33
Pittsburgh	588, 343	196	42	5	9		37	2		
Plymouth	16,500		2		-	*****	.54	-	15	12
Punxsutawnev	10,311		- 5				2	*****	*****	*****
Reading	100 cwa i		*****				1	*****	*****	*****
Scranton	137, 783		4		9		¥			
Sharon	137, 783 21, 747 24, 726 13, 428		2		0		*****		*****	*****
Shenandoah	24, 726		2							*****
Steelton	13, 428		-	*****			5	*****	*****	*****
Sunbury	15, 721					*****		*****		*****
Swissvale	10,908		2		*****	*****	1	*****		*****
Tamaqua	12, 363	******	2			****	1	*****		
Uniontown	15, 692	******	1			*****				*****
	more tropas	enemant.	A .		neseel.		3			
Warren	14, 272				1		2			

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CITY REPORTS FOR WEEK ENDED DECEMBER 1, 1923—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Total deaths	1	ntheria	Me	asles.		arlet ver.	Tu	ber- osis.
City.	tion Jan. 1, 1920.	from all causes.		Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Pennsylvania—Continued.										
Wilkes-Barre	73, 833		1		1					
Williamsport	36,198		2		175		2			
York Rhode Island:	47,512		1	*****				*****		*****
Cranston	29, 407	5	1				9			
Cumberland (town)	10.077	2	2				4			
East Providence (town)	21,793	7	1				1			
Newport	21,793 30,255 64,248 237,595	18	1				1 3			
Pawtucket	237, 505	71	11		4		38			1
South Carolina:	201,000		**				90		1	
Charleston	67,957	15	2		7		1			
Columbia	37,524	12			22		1		2	
South Dakota:	et 000				_					
Sioux Falls	25, 202	9		*****	7		1			
Knoxville	77,818				9				1	1
Memphis	162, 351	53	8		6		7		8	3
Nashville	118, 342	53	6	2			4		2	
rexas:										-
Amarillo	15, 494 40, 422	10	2				2 3			3 2
Beaumont	158, 976	29	19	2	161		4		1	3
El Paso	77, 560	14	4	-	2		2		6	3
Forth Worth	77, 560 106, 482	25	4				1		3	
Galveston	44, 255	13								4
Houston	138, 276 10, 050	34	4				9			4
San Angelo San Antonio	161, 379	15 43	5	2	2		1		3	3 8
Temple	11,033	213	2			000 00	î			
Waco	38,500	19					2			1
Utah:										
Provo.	10,303	2		*****						
Salt Lake City	118, 110	33	1		3		2		*****	2
Barre	10,008	4					1			
Burlington	22,779	10	2				î			
irginia:										
Alexandria	18,000 10,688 30,070	3								
Charlottesville	20, 658	7	1				4		3	····i
Lynchburg Newport News	35,596	6	i		1		3		9	î
Norfolk	115,777		1		32		2			2
Petersburg	115,777 31,012	12	3						3	2
Portsmouth	54, 387	15	1		1		1			·····à
Richmond	171,667 50,842	56 21	13		5 2		5		3	0
Vashington:	00,042	-1	9		-		9			
AberdeenBellingham	15,337				1					
Bellingham	25,585 27,644 315,312		1		1					
Everett	27,644		1		*****					
SeattleSpokane	104, 437		77		105 200		7			
Tacoma	96 965				200		1			
Vancouver	12,637				2		î			
Yakima	96, 965 12, 637 18, 539		1		85					
Vest Virginia:		-			- 1					
Bluefield	15,282	26					1		1	1
CharlestonClarksburg	39,608 27,869	4	9		0		3	1	1	3
Fairmont	17,851	-	1		~		1	* 1		
Huntington	50, 177	11					1		3 .	
Morgantown	12, 127 20, 050								1 .	*****
Parkersburg	20,000	4	3							
Wheeling	56, 208	24	3				3			
Appleton	19,561	5	5 .							
Ashland	19,561 11,334 21,284	3 .					3			
Beloit	21, 284	1	1 .				1 .		1 .	****
Eau Claire	20,906						1		1 .	
Fond du Lac	23, 427 31, 017	9 .			2		9			
Janesville	18, 293	3	5		2 .		2			

CITY REPORTS FOR WEEK ENDED DECEMBER 1, 1923—Continued.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS-Continued.

Clty.	Popula-	Total	Diph	theria.	Med	nsles.		rlet ver.	Tuber- culosis.	
City.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Wisconsin-Continued.										
Kenosha	40,472		5		1				2	
La Crosse	30, 421				1		1			
Madison	38, 378	11	6		2		1			
Manitowoc	17,563	7								
Marinette	13,610	-1	1		4					
Milwaukee	457, 147		40	1	2		11		2	
Oshkosh	33, 162	3					1			
Racine	58, 593	16	8	1			4			
Sheboygan	30,955	13	6		2		3			
Stevens Point	11,371		2				10			
Superior	39,671	3	3				4			
Waukesha	12,558	3								
Wausau	18,661		3				2			
West Allis	13,745		3				1			
Wyoming:	209 . 20									
Cheyenne	13,829	9					1			

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STATE REPORTS FOR JULY, AUGUST, AND SEPTEMBER, 1923.

ANTHRAX.

	New	cases rep	orted.		New	cases rep	orted.
Place,	July	August,	Sep- tember.	Place.	July	August.	Sep- tember,
California: Colusa County Glenn County—Wil- liams Napa County—Napa.	1	1	2	New York: Fulton County— Gloversville			1
Sonoma County— Sebastopol Yolo County—Graf- ton		1	1	Lucas County—To- ledo	1	1	
Total	1	2	3	Total	1	1	
Delaware: New Castle County— Wilmington Florida: Hillsborough County—	1		1	Pennsylvania: Philadelphia Somerset County Total		1 1	
Tampa Maryland: Worcester County— Bishops township	1	2		Rhode Island: Providence County	1		1
Massachusetts: Middlesex County— Wobu:n			1	South Dakota: Beadle County Hutchinson County—		2	1
Mississippi New Jersey: Camden County—	1		4	Freeman Kingsbury County— Iroquois	******	1	
Camden	1			Total		4	1

STATE REPORTS FOR JULY, AUGUST, AND SEPTEMBER, 1923—Continued. CEREBROSPINAL MENINGITIS (EPIDEMIC).

	New	cases rep	orted.		New	cases rep	orted.
Place.	July.	August.	Sep- tember.	Place.	July.	August.	Sep- tember
Alabama: Calhoun County St. Clair County Winston County			1 1 1	Illinois—Continued. Sangamon County Warren County Winnebago County	1 1	·····i	
Total			3	Total		-	2
Arkansas: Carroll County Hot Spring County Scott County Union County Washington County	1 2	1 1 1		Indiana: Dearborn County Delaware County St. Joseph County Total			j
Total	3	3		Iowa:			1
California: Alameda County Fresno County Los Angeles County. Merced County. Napa County. Orange County. Sacramento County. San Bernardino County. San Diego County. San Francisco	1 1 1			Fremont County Kansas: Ellsworth County Jewell County Montgomery County. Morris County. Neosho County. Osage County. Russell County.		1 1	
County Sonoma County Tulare County	1	10	5	Louisiana: Lafayette Parish Orleans Parish St. Martin Parish	1 1		2
Colorado:				Total	2		2
Chaffee County Chaffee County Pueblo County San Juan County Total	1	1	1	Maryland: Baitimore City Place not stated Total	2 2	1	i 1
Connecticut: Fairfield County Hartford County New Haven County New London County.	1 5	3	1 3	Massachusetts: Bristol County. Essex County. Hampden County. Middlesex County. Plymouth County. Suffolk County.	1 5		1 4 1
Total	U	3		Worcester County		1	1
Delaware: New Castle County		1		Total	11	10	10
District of Columbia	_			Minnesota: Aitkin County St. Louis County	1	******	
Florida: Dade County Hardee County Hillsborough County.		1 1 3	1 2	Total	2		
Total		5	3	Montana: Cascade County Missoula County County not stated		1 1	
Oahu	******	1	*******	Total		2	2
Adams County	1 1 3	1 1 7 1	1 1	New Jersey: Bergen County Essex County Hudson County. Passaic County. Union County.	3 2 1	2 5 1	1 1 2 2
Lake County Richland County St. Clair County	1			Total	6	10	(

CEREBROSPINAL MENINGITIS (EPIDEMIC)-Continued.

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	Nev	v cases re	eported.		New	cases re	porte
Place.	July.	August.	Sep- tember.	Place.	July.	August.	Sep tembe
New York:				Rhode Island:			
Albany County	1	1	1	Kent County			
		1		Providence County		1	
Cheming County			1				
Chemung County Columbia County Erie County		1	1	Total		1	
Erie County	2	1		Goodh Corollina			-
Genesee County			1	South Carolina:		1	
Herkimer County New York City		10	13	Greenville County		1	*****
New York City	2		13	South Dakota:			
Niagara County Oneida County	î			Brown County			
Oswego County			1	Lake County			
Seneca County			i	Lake County Spink County	1		
Seneca County Ulster County			1				
Westchester County	1	2	3	Total	1		
Total	14	16	25	Virginia:		1	
				Accomac County Bedford County Bland County Buchanan County Charlotte County	4		*****
North Carolina:				Bland County			
Forsyth County	1			Buchanan County		1	
Granville County		1	1	Charlotte County		2	
Johnston County		1	******	Culpeper County		2	
New Hanover County			·····i	Cumberland County	2		
Pitt County Sampson County	1			Culpeper County Cumberland County Dickenson County Halifax County		1 2	
Surry County	1		********	Lee County		î	-
Surry County Vance County	1			Lee County Madison County		î	
				Nansemond County			
Total	4	3	2	Pułaski County			
				Nansemond County Pulaski County Rockingham County. Smyth County	1		
Ohio:				Smyth County	1		
Auglaize County Cuyahoga County	2	1	1	Southampton County Tazewell County	2	1	
Cuyahoga County	2	1	1	Tazewen County		1	
Franklin County Huron County	1	******	*******	Total	7	12	
Stark County	1			1			
Deline South				Washington:			
Total	6	. 1	2	Chelan County King County		1	
				King County			
Oklahoma:				Total		1	
Garvin County Mayes County	******	1	1				
mayes County	******	1	******	West Virginia:			
Total		1	1	Boone County McDowell County		1	
				County not stated	9	1	
ennsylvania:				County mot stated	- 8		
Allegheny County	1	2		Total	9	2	
Right County		1					
Butler County	1			Wisconsin:			
Chester Country	1 1	1		Columbia County	******	1	
Dauphin County		1	·····i	Columbia County Eau Claire County Green County		1	
Delaware County	******	1					*****
Indiana County Lehigh County		i		Kenosha County			
Luzarna County	3	4		Milwaukee County	3	1	
Mercer County	1			Monroe County		1	
Mercer County. Montgomery County. Philadelphia County.		1		Kenosha County Milwaukee County Morroe County Rock County Sheboygan County Waukesha County	1		
Philadelphia County.	3	1	3	Sheboygan County			
Potter County Westmoreland		1		Waukesha County			
County	1		1	Total	4	5	
Wyoming County			i				
Total	11	14	7	Wyoming: Fremont County		1	
	-		INFLU	ENZA.			
					1		
l-h-may							
labama: Autauga County				Alabama—Continued. Chambers Conuty	4		

INFLUENZA-Continued.

	New	cases tep	orted.		New	cases rep	orted.
Place.	July.	August.	Sep- tember.	Place.	July.	August.	Sep- tembe
Alabama—Continued.				California—Continued.			
Alabama—Continued. Coffee County. Colbert County. Conecuh County. Covington County. Dallas County Elmore County. Escambia County Etowah County. Fayette County Henry County. Henry County Jackson County Jefferson County Lawrence County	2		1	San Bernardino			
Colbert County	14			Carrantan			
Conecuh County			3	San Diego County	1		
Covington County		6		San Francisco County	10	1	
Dallas County			1	San Joaquin County .	1		
Elmore County	1		7	Santa Barbara County	2		
Escambia County	3			San Diego County San Francisco County San Joaquin County San Joaquin County Santa Barbara County Santa Clara County Santa Cruz County Sonoma County Stanislaus County Tehama County			
Etowah County		3	1	Santa Cruz County	*******		
Fayette County			2	Sonoma County	2		*****
Henry County			2	Stanislaus County			
Houston County		1	95	Tenama County	******	******	
Jackson County	*******	*********	23	Total		17	
Larrence County			1	I Otali	40	11	
Limortone County	1			Colorado:			
Lawrence County Limestone County Lowndes County Madison County Marengo County	1	1		Boulder County			
Madison County	1		1	Boulder County			
Marengo County		2	56	Connecticut:			
Marshall County		1	2	Fairfield County		1	
Marengo County. Marshail County Mobile County Monroe County Mongomery County Morgan County Perry County Pickens County Pickens County Russell County	3	2	2	Fairfield County New Haven County New London County	1		
Monroe County		1		New London County		6	
Montgomery County.	3	2	4			_	
Morgan County		1		Total	1	7	
Perry County			- 1				_
Pike County	1			Delaware:		_	
Pickens County			16	Sussex County		3	
Russell County				Dist. 1.1. 10.1. 11.			-
Shelby County	1		3	District of Columbia		4	
Calladam County	3			The last			
Tallances County	1		3	Florida:			
Tuesdoes County	2			Day County		1	
Shelby County Sumter County Talladega County Tallapoosa County Tuscaloosa County Wikey County			4	Dada County		6	
Wileox County Winston County	1	5	5	Duval County		3	
				Escambia County		4	
Total	52	- 34	198	Florida: Bay County Brevard County Dade County Escambia County Escambia County. Hillsborough County. Jackson County. Marion County. Pasco County. Polk County. Putnam County. St. Johns County. Seminole County. Wakulla County.		2	
				Hillsborough County.	1		
Arkanses: Ashley County. Baxter County. Cerroll County. Chicot County. Craigshead County. Drew County. Greene County. Hempstead County. Hot Spring County				Jackson County		3	
Ashley County	1	******		Marion County		2	
Correll County			3	Polk County	******	1 2	
Chicot County			2	Putnam County		1	
Craigshood County	9		-	St Johns County	******	i	
Drew County				Seminole County		î	
Greene County		3		Wakulla County			
Hempstead County	2	8	3				
Hot Spring County Lee County Logan County Monroe County			1 2	Total	1	29	
Lee County	1	1	4				-
Logan County		0		Hawaii:	**	40	
Monroe County	2		2	Hawaii	11	18	
Queshite County.	3		19	Kauai	131	20 165	
Randolph County	2	1	10	Maui	3	100	
St Francis County		1		Oahu	6	2	
Monre County Montgomery County Ousehita County Randolph County St. Francis County Scott County	1	2		Odditi	0	-	
Sebastian County	i			Total	154	205	1
Sebastian County Woodruff County	1						
				Illinois:			
Total	17	31	52	Alexander County			
alifornia:				Bureau County			
	2	2	3	Clark County			
Butte County	-	1		Clinton County		1	
Los Angeles County	******		*******	Cook County	20	9	
Los Angeles	11	11	24	Ford County	2	-	
Scattering	6	i	7	Kane County		2	
Mariposa County	1			Livingston County	1	1	
Mendocino County	3	******	24 7	Macon County			
Alameda County. Butte County Los Angeles County Los Angeles. Scattering. Mariposa County. Mendocino County Merced County. Mono County. Napa County. Riverside County.		1		Illinois: Alexander County. Bureau County. Champaign County. Clark County. Clinton County. Cook County. Ford County. Kane County. Livingston County. Macon County. Peoria County. St. Clair County.		1	
Mono County	1		*******	St. Clair County Sangamon County Stephenson County		1	
Napa County			1	Sangamon County		3	
93.5			1				

¹ Of these, 56 cases reported as "Devil's grip."

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i INFLUENZA—Continued.

	New	cases re	ported.		New	cases re	port
Place.	July.	August.	Sep- tember.	Place.	July.	August	ten
Illinois—Continued.				Mississippi:			-
Tazewell County			2	Alcorn County			
Vermillon County			2	Bolivar County	4	8	1
Wabash County			1	Cinckasaw County	1.3		1
Winnebago County	4		3	Clay County	4		i
				Copian County	9	9	
Total	28	11	43	Covington County		21	1
				Covington County De Soto County Franklin County George County	1		1
Indiana:				Franklin County			
Hendricks County	4	******	*******	George County			
Martin County Monroe County	4	17		Holmes County	15	5	1
Monroe County		1	*******	George County Holmes County Jackson County Jasper County			1
(F-4-1	8	10	30	The course of th			
Total	8	18	30	Jefferson Davis			
lowa:				County	15		
	1			Jefferson Davis County Lafayette County Lewrence County Lee County		25	
Boone County	1			Lawrence County		20	1
Kansas:				Lee County	7	18	
Greenwood County		9		Marion County	2		
Neosho County			1	Marion County Oktibbeha County Panola County Pearl River County.	- 6		
Rawling County	1	3		Panola County		1	
Neosho County Rawlins County Russell County	4	5	******	Panola County Pearl River County Pike County	1	13	
Smith County			1	Pike County	2		
Thomas County		1					
amount country	******	_		Sunflower County		12	
Total	1	10	2	Tallahatchie County .		12	
				Tippah County Tishomingo County		6	
Louisiana:				Union County		2	
Avoyelles Parish			1	Union County	******	12	****
Caddo Parish			2	Walthall County Washington County Wilkinson County	9	10	
Caldwell Parish			3	Wilkinson County	4		
De Soto Parish			1	Valobusha County		1	
East Haton Eougn			-	Yalobusha County Yazoo County		2	
Parish			4	Turos county			
Parish. Orleans Parish. St. Mary Parish. Tangipahoa Parish. Terreboung Parish	2	1	2	Total	89	168	
St. Mary Parish			11	20001		-	_
Tangipahoa Parish		2	******	Montana		4	
Terrebonne Parish		1					-
				Nebraska	32	1	
Total	2	4	24			-	
				New Jersey:			
faryland:				Bergen County Essex County		1	
Allegany County Baltimore City Charles County Dorchester County Frederick County	1	1	1	Essex County	6	11	
Baltimore City	2	3	5			1	
Charles County			1	Middlesex County Monmouth County		2	
Dorchester County	2	6		Monmouth County			
Frederick County		1		Passaic County	1		
Harford County	1						
Talbot County		6	i	Total	7	15	
Frederick County Harford County Talbot County Washington County		1	1	New Mexico:			
County not stated	******		21	Luna County		1	
				Luna County Santa Fe County			
Total	6	18	9				
				Total		1	
fassachusetts:					- militariti estratio		
Essex County		1	1	Albany County		5	
Hampden County Middlesex County		1	1	Cattarangue County		9	
Middlesex County		1	1	New York: Albany County Cattaraugus County Darke County Montgomery County. Nassau County New York City Oneida County.	1	9	
Norfolk County		1	9	Montgomery County			
Suffolk County		7	-	Nassau County	1		
County not stated	3			New York City	17	22	
		92	1.4	Oneida County			
Total	3	11	14	Grange County	1		
				Rockland County	1		
linnesota:				St. Lawrence County.	1		
Clay County			1	Ulster County	6		
Clay County	1	2		Ulster County Westchester County		1	
Gooding County		2		The state of the s			
Martin County			1.	Total	27	37	
Pennington County		1					
St. Louis County	1			Ohio:			
St. Louis County Washington County	1			Clinton County		1	
		3	2	Cuyahoga County Drake County	2	2	
Total							

Reported as "Devil's grip."

INFLUENZA-Continued.

	New	7 cases re	ported.		New	cases rej	ported.
Place.	July.	August.	Sep- tember.	Place.	July.	August.	Sep- tember
Ohio-Continued.				Virginia—Continued.			
Correspondent Correspondent			1	Nottoway County		9	
Lawrence County			1	Orange County Page County	6	1	31
Lawrence County Stark County Summit County		2	1	Pittsylvania County	0		1
Wayne County		1		Powhatan County		1	
		6	7	Prince Edward			
Total	- 1	-		County	6	******	15
Oklahoma:		9		Princess Anne County	3	8	
Woods County County not stated	13			Pulaski County			1
	_			Roanoke County	2	2	4
Total	1.0	-		Rockbridge County		19 25	24
Oregon:	2	1		Rockingham County.		4	20
Umatilla County				Shenandeah County		15	39
Rhode Island:						10	
Providence County	******	******	1	Southampton County		18	5
South Carolina:	1		-			2	5
York County			5	Warren County Washington County	15	20	21
South Dakota:				Westmoreland		-	
Minnehaha County		2		Wythe County		3	
		-		Wythe County	5	10	10
Virginia:	10	39	20	County not stated (reported as "Dab-	1	-	
Accomac County Alleghany County	18	16	10	ney's grip'')		2,707	
Amelia County		15	3		-		
Augusta County	15		13	Total	140	3,033	431
Augusta County Bedford County	4	6	7	W. Martin			1
		2 2	4	Washington	******	*******	1
			2	West Virginia:			
Campbell County Caroline County		10		Hampshire County		1	
Charlotte County			24	Harrison County		9.1	13
Clarke County	*******	7	8 3	Kanawha County Monroe County Upshur County		*******	3
Culpeper County Dickensen County Dinwiddie County Fauquier County		'	2	Unshur County	******	9	
Dinwiddie County			2	Wyoming County Counties not stated		1	5
Fauquier County	5	8	9	Counties not stated	18		
Franklin County Goodhland County			5	Total	18	13	23
Goochland County		8	6	Total	10	13	20
Greensville County Halifax County	1	12	5	****			
Hanever County	15		9	Wisconsin: Chippewa County	4	3	6
Henrico County	4	15	19	Door County			6
Henry County Isle of Wight County.	2	******	7	Grant County	2		
King and Queen	-	******	*******	Green County		11	2
County		8	******	Jefferson County Marinette County	2 2	1	
			.4	Monroe County			3
Lunenburg County		10	11	Sauk County			1
Mathews County	1	3	5	Sheboygan County Vernon County	2		2
Montgomery County.			15	Walworth County	3	1	-
Neisch County			2	18			
Northampton County		3	12	Total	26	16	20
			LEPI	losy.			
Arizona:			1	Hawali:			
Mohave County-				Hawaii		2	1 2
Kingman	1			Kauai		1	2
				Maui	1 3	2	1
California:				Oahu	3		1
Los Angeles	1	1		Total	4	5	5
		-					
District of Columbia	1			Louisiana: New Orleans		1	6
Florida						-	
Florida: Bay County—				Minnesota: St. Louis County—			
Panama City	1			Midway township		1	
	- 1			1			

LETHARGIC ENCEPHALITIS.

	New	cases rep	oorted.		New	cases rep	ases reported.	
Place.	Juiy.	August.	Sep- tember.	Place.	July.	August.	Fep- tember.	
Alabama. California. Connecticut. District of Columbia Florida. Idaho. Illinois. Kansas. Louisiana. Maryland Massachusetts.	1 12 7 2 2 4	1 14 5 1 1 7 5	5 31 13 55 24 12 28	Minnesota	1 1 40 6 16	50 1 2 1 2 2 2	22	

MALARIA.

Alabama:		1		Alabama—Continued.			1
Autauga County	4	17	34	Shelby County	7	23	21
Baldwin County			57	St. Clair County		7	8
Barbour County		16	4	Sumter County		86	114
Bibb County		16	15	Talladera County		7	9
Blount County		2	1 10	Tallapoosa County	40	1	1 4
		31	41	Tuscaloosa County	13	21	14
Bullock County		2	2	Walker County	35	42	70
Butler County		17	26	Washington County.		7	13
Calhoun County		1	1	Wileox County	6	15	26
Chambers County		1 1	9	Winston County		24	5
Cherokee County		7 8	5	winston county	10	23	9
Chilton County		14	37	Total	634	1,644	1, 444
Choctaw County				1001	094	1,022	1, 222
Clarke County		18	28	4-1			
Clay County		2 2	1	Arkansas:			
Cleburne County		2	2	Arkansas County			
Coffee County		2	2	Ashley County		7	13
Colbert County		22	19	Baxter County		57	29
Conecuh County		3		Benton County	7	1	2
Coosa County		1	1	Calhoun County		9	10
Covington County	3	30	4	Carroll County		7	10
Crenshaw County		11	9	Clark County	1	4	
Cullam County		5	12	Clay County		1	1
Dale Caunty		9	4	Cleveland County		21	10
Dallas County		77	81	Columbia County			1
Dekalb County			1	Conway County		13	25
Escambia County	12	23	10	Craigshead County			9
Etowah County	15	49	40	Crawford County		2	1
Fayette County	10	17	25	Cross County		30	1 2 71
Enoughlin County	10	118	89	Drew County		56	71
Franklin County Geneva County		55	24	Faulkner County	4	26	22
				Franklin County		19	9
Greene County		1	18			36	36
Hale County		83	45	Grant County	10	12	9
Henry County		10	16	Greene County			
Houston County		70	30	Hempstead County	11	32	17
Jackson County	1	31	16	Hot Spring County	51	172	49
Jefferson County	17	79	49	Howard County		7	
Lamar County		30	21	Independence County	65	. 66	28
Lauderdale County	21	22	17	Izard County	7	5	6
Lawrence County	19	31	35	Jackson County	204		
Lee County			1	Lafayette County	19	27	2
Limestone County	43	98	48	Lawrence County	21	16	11
Lowndes County	7	10	13	Lee County	9	33	335
Macon County	3	4	6	Logan County	9	11	
Madison County	36	62	38	Lonoke County	25	46	4
Marengo County	60	149	92	Madison County	3	12	6
Marion County		3	1	Marion County	2		
Marshall County	6	4	2	Miller County	-		8
Mobile County	14	22	18	Mississippi County		30	16
Monroe County	3	5	7	Monroe County.	57	22	22
	22			Montgomery County	18	4	8
Montgomery County.		15	17	Montgomery County			52
Morgan County	13	25	29	Ouachita County	78	86	
Perry County	******	14	19	Perry County		12	11
Pickens County	2	17	28	Pike County	21	27	15
Pike County		2	9	Poinsett County	23	35	13
Randolph County	1 4	4	2	Prairie County	10	21	*******
Russell County	4	2		Pulaski County	16	20	23

¹ Deaths.

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MALARIA—Continued.

	Nev	v cases re	eported.		New	cases re	porte
Place.	July.	August	Sep- tember.	Place.	July.	August	Sentemb
Arkansas-Continued.				Florida—Continued.			
Randolph County	6	6		Glades County		1	
St. Francis County	41	89	33	Hardee County		17	
St. Francis County Saline County	15	22	26	Highlands County		1.6	1
Scott County Sebastian County Sharp County	11	13	-	Hillsborough			1
Sebastian County	22	22	31	County—	1		1
Sharp County	22 22	12	28	Tampa		6	
Union County	39	65	46	Soattoring	3	111	1
Union County Van Buren County	16	20	1	Holmes County		11	
Washington County	6	6	î	Jackson County	******	3	1
Washington County White County	6 3	3	4	Jefferson County		3	
Woodruff County	47	39	24	Lake County		3	1
Yell County	6	30	2.7	Loon County	*******	3	1
a cu county			*******	Leon County	******	11	1
Total	1 053	1, 324	1,080	Levy County		4	
A 04001	1,100	1,049	1,000	Medicen County			
alifornia:		1		Manatas County		1	
Alameda County	1		2	Marion County		9	
Butte County	1		-	County— Tampa. Scattering. Holmes County. Jackson County. Jefferson County. Lake County. Leon County. Levy County. Liberty County. Madison County Manatee County Marion County. Nassau County.	1		
Alameda County Butte County Calaveras County	1	******		Okaloga County	******	3	
Colusa County	9			Orange County			1
Calaveras County Colusa County Fresno County		1	2	Orange County		1	
Glenn County Kern County Los Angeles County Merced County Orange County		1	i	Marion County. Nassau County. Okaloosa County. Orange County. Oscoola County. Palm Beach County. Pincilas County. Pincilas County. Polk County. Putnam County. St. Johns County. St. Lucie County. Santa Resa County.	1	1	
Kern County			2	Page County		1	
Los Angeles County	2	8	-	Pinettes County	0	8	
Merced County	ī	1		Polk County	3 1 1	12	
Orange County	_		1	Putnam County	1	12	
Sacramento County		5	7	St Johns County		,	
Orange County Sacramento County San Francisco County San Joaquin County Shasta County Siskiyou County	2	1	7 2	St. Lucie County	*******	*******	
San Joaquin County	2		3	Santa Rosa County	******	3	
Shasta County	3	3	8	Seminole County	9	1	
Siskiyou County	1			Suwanee County	2		
Solano County	2			Union County	*******	9	
Siskiyou County Solano County Stanislaus County		2		Volusia County	1	9	
		1		Santa Rosa County Santa Rosa County Seminole County Suwanee County Union County Volusia County Wakulla County			
Tehama County		1			*******	*******	
Ventura County Yuba County			1	Total	52	139	
Yuba County	2	2					-
AND 4 - 3	-			Hilmois: Bureau County. Coles County. Cook County. Gallatin County. Hancock County Iroquois County. Johnson County. Morgan County. Rock Island County. St. Clair County. Vermillon County.	1		
Total	21	26	29	Coles County			
-				Cook County.	3	3	
onnecticut:				Gallatin County		3	
Fairfield County	3	3		Hancock County		1	
Hartford County	7	5	7	Iroquois County	1	-	
Fairfield County Hartford County Litchfield County			1	Johnson County			
Middlesex County New Haven County	1			Morgan County		1	
New Haven County	1	1		Rock Island County	3		
		-		St. Clair County	3	1	
Total	12	9	8	Vermilion County		2	
				Washington County		3	
elaware:	3	1	-				-
Kent County Sussex County	1	6	4	Total	11	14	
		0	-	Kansas:			
Total	4	7	4	Coffey County		1	
				Greenwood County		2	
lorida:	-			Greenwood County Montgomery County.		6	
Alachus County		1	5	Shawnee County	- 1	2	
Pay County		3	- 1	Sumner County Wyandotte County		1	
Browned County	3	- 0	6	W vandotte County.		1	
Broward County		2					
Calhoun County		2		Total		13	
Citrus County		1				-	
Clay County	4		******	Louisiana:		10	
Columbia County	0	2	6	Acadia Parish		10	
Dade County	2	2	1	Allen Parish Assumption Parish	6		
Do Soto County		2		Assumption Parish	0	11	
orida: Alachua County. Bay County. Brovard County. Broward County. Calhoun County. Citrus County. Clay County. Columbia County. Dade County. Desoto County. Dixie County. Dixie County.		1	1	Avoyelles Parish	2	2	
Dixie County Duval County—			*******	Caddo Parish Catahoula Parish De Soto Parish East Baton Rouge	-		
Jacksonville	12	8	11	De Soto Parish	13	2 5	
Jacksonville Scattering	3	2	1	East Baion Rouge	10	9	
ESCAMDIS COURTY	3	2 3		Parish	2	2	
Flagler Frankjin County Gadsden County		1		Parish East Feliciana Parish	3	-	
W3 2 11 12		-		Franklin Parish	1		
Franklin County	4			Grant Parish	4 1	energy and	

MALARIA-Continued.

	New	cases rej	ported.		New	cases rep	orted.
Place.	July,	August	Sep- tember.	Place.	July.	August.	Sep
ouisiana—Continued. Iberia Parish				Mississippi—Continued.			
Iberia Parish	1			Calhoun County	35	75	1
Iberville Parish	55		42	Carroll County	130	161	1
Iberville Parish Jefferson Parish.		1		Chickasaw County	78	68	1 1
Jefferson Davis Par-				Choctaw County	42	61	
ish		1		Choctaw County Claiborne County	74	74	
Lincoln Parish			2	Clarke County	96	92	
Livingston Parish		1		Clay County	88	148	1
Madison Parish	1	20	4	Coahoma County	683	905	1
Orleans Posish		4	12	Copiah County	96	214	
Jefferson Davis Par- ish Lincoln Parish Livingston Parish Madison Parish Natchitoches Parish Orleans Parish Rapides Parish Rapides Parish Red River Parish St. James Parish St. James Parish			1	Covington County	57	75	
Rapidos Parish	1	4	1	De Soto County	99	219	
Rod Rivor Parish		i	1	Forrest County	40 28	71	
St James Parish			3	Franklin County	28	91	
St. John Parish		1		George County Greene County	65	73	
St. Landry Parish	1	3		Granada County	249	210	
St. Martin Parish	1			Grenada County Hancock County	31	67	
St. Mary Parish			2	Harrison County	4	19	
Tangipahoa Parish		1	2	Hinds County	225	330	
Terrebonne Parish	1			Holmes County	447	438	
St. James Parish St. John Parish St. Landry Parish St. Martin Parish St. Martin Parish Tangipahoa Parish Terrebonne Parish Union Parish Vermilion Parish	7			Humphreys County	371	370	
Vermilion Parish	******	1 7	1	Issague, a County	69	85	
Vernon Parish	1	1		Itawamba County	58	128	
Washington Parish	11	7	6	Jackson County	28	25	
West Feliciana Parish	2	******	******	Jasper County	64	101	
Total '	118	78	119	Jefferson County	90	120	
Total	119	18	119	Jefferson County Jefferson Davis		-	
aryland:				Consisty	51	67	
Allegany County	1			Jones County	83 55	78 43	
Anne Arundel County		1	2	Kemper County	181	310	5
Baltimore City	î	6	27	Lafayette County	26	51	
Baltimore County	1	1	4	Lauderdale County	78	78	
Caroline County			1	Lawrence County	86	60	
Charles County		1		Leake County	44	116	1
Dorchester County	3	4	1	Lee County	260	305	4
Harford County			1	Lettere County	1,145	1,565	1,3
Somerset County	2	1	1	Lincoln County	84	92	-,-
Dorchester County Harford County Somerset County Talbot County Wicomico County	1	4	*******	Lowndes County	154	236	1
Wicomico County— Salisbury	00	10	***	Madison County	96	323	1
Salisbury	28	12	10	Marien County	96	126	1
Scattering	î	1 2	2	Marshall County	45	70	
Worcester County	1		******	Monroe County	205	446	4
Total	44	33	29	Mentgomery County.	161	154	1
1044		- 00		Newton County	64 47	107 64	
assachusetts:				Noxubee County	80	82	1
Barnstable County			1	Oktibbeka County	137	175	i
Berkshire County		1		Panola County	159		i
Barastable County Berkshire County Essex County Middlesey County	1		1	Pearl River County 1	55	55	
DIRECTOR COUNTRY			1	Perry County	29	40	
Suffolk County	2	2		Pike County	170	184	2
1			-	Pontotoe County	107	116	
Total	3	3	2	Prentiss County	31	60	
ich igen:				Quitman County	138	294	3
ichigan:			1	Ranson County	56	66	0
Berrien County Genesee County Muskegon County Saginaw County Wayne County		1		Scott County	103	147	2
Muskegon County		1	2	Sharkey County Simpsen County	62	183 138	1
Saginaw County			ī	Smith County	28	87	,
Wayne County		1		Stone County	15	7	
				Sunitower County	747	1,088	1,2
Total		3	4	Tallabatchie County.	457	650	6
2				Tate County	167	150	2
innesota:			1	Tippah County	50	111	
Clay County		1		Tishomingo County	121	137	1
				Tunica County Union County	586	558	5
ississippi:			- 1	Union County	72 15	89	1
Adams County	49	63	63	Walthall County Warren County	15	8	
Alcorn County	42	74	78	Warren County	161	215	1
Adams County Alcorn County Amite County Attala County	45	96	49	Washington County Wayne County Webster County	364	414	3
Benton County Bolivar County	141	224	190	Wayna County	50	50	
Denium County	19	1,844	39	webster County	46	23	- 1

MALARIA-Continued.

	New	cases rej	porte1.		New	cases i
Place.	July.	August,	Sep- tember.	Place.	July.	Augus
Mississippi—Continued.				Virginia:		
Winston County	120	131	160	Accomac County	32	50
Yalobusha County	99	217	168	Alleghany County	2	1 1
Yazoo County	519	596	487	Amelia County		1 7
Total	13.987	17,141	16,336	Amherst County Bedford County		2
AUtos		,		Brunswick County	16	11
Sebraska		1		Buchanan County		
New Jersey:				Campbell County	2	2
Bergen County Essex County	1 6	2 3	2	Caroline County	20	28
Hudson County	2		-	Charles City County	5	i
Mercer County		1		Charlotte County Chesterfield County		
Middlesex County	1			Chesterfield County	3	4
Morris County	7	2	1	Cumberland County Dinwiddie County	3 2	17
Passaic County	i	******	1	Elizabeth City County	2	2
Sussex County	-	******		Essex County	*******	
Total	18	8	3	Fanguier County		1
ew Mexico:				Franklin County	·····i	1
Eddy County	1	1		Gloucester County Goochland County	1 3	5 2
Rio Arriba County		4		Grayson County	6	2
Santa Fe County		2		Greensville County	29	40
Total	1	7		Halifax County	22	20
		-		Hanover County	8	14
ew York:				Henrico County	7.	22
Dutchess County— State Institution.	13	14	12	Isle of Wight County.	7 5	23
Scattering	1		4	James City County King and Queen		
New York City	9	12	2	County	6	13
Orange County		2		King George County. King William County		10
Putnam County		1		King William County		2
Rockland County— Haverstraw vil-				Lancaster County Louisa County		3
lage	6	11	7	Lunenburg County	9	15
Ulster County			1	Mathews County	4	3
Westchester County		******	1	Mecklenburg County.	1	19
Total	29	45	27	Middlesex County Nansemend County	12	13
	20	10		Nelson County	~	
do: Cuyahoga County	2	3		New Kent County	3	7
Hamilton County		2		Northampton County	41	24
Lorain County	2			Northum berland	4	15
				County Nettoway County	4	1
Total	4	5		Orange County	i	
dahoma:				Pittsylvania County	9	12
Creek County	3	3		Powhatan County	5	8
McIntosh County Mayes County	7	13	8	Prince Edward County	6	9
		-		Prince George County	1	1
Total	10	16	8	Princess Anne County	13	10
egon:				Prince William	3	5
Clackamas County			1	Richmond County	1	8
nnsylvania:				Rockbridge County		1
Beaver County.	1			Scott County		
Erie County		1		Shenandoah County	1	
Millin County	1		1	Southampton County	31	28
Montour County Philadelphia County.	1	2		Spotsylvania County.	16	7 8
a minucipina county.		-		Surry County Sussex County	3	9
Total	3	3	1	Warwick County	4	9
ode Island:				Washington County		1
Providence County	1			Westmoreland	5	9
th Carolina:				York County	12	31
Chester County		1		Tota County	10	
Darlington County	10	9	8	Total	376	546
Greenwood County	22			=		
Laurens County		34	1	Washington:		-
Lexington County		31 .		County not stated		

STATE REPORTS FOR JULY, AUGUST AND SEPTEMBER, 1923-Continued. OCCUPATIONAL DISEASES AND DISABILITIES.

	New	cases re	ported.		New	cases re	ported.
Place.	July.	August.	Sep- tember.	Place.	July.	August.	Sep- tember.
Connecticut: Dermatitis venenata Eczema		1	i	New Jersey: Lead poisoning	1		3
Occupational der- matitis (cya side)		2		Ohio: Dermatitis Poisoning—	. 45	35	33
Total		3	1	Arsenie	2	2	
Illinois: Lead poisoning	12	31	14	Lead Metal (chronic)	1	1 1	2
Massachusetts: Aniline poisoning Dermatitis Lead poisoning	1 2 11	4	2	Total	48	39	35
Total	14	4	2				

PELLAGRA.

	1	1	1	4	1	1	
Alabama:				Arkansas-Continued.			
Baldwin County		2		Drew County	1	9	
Barbour County		-	1	Faulkner County	R	1	1
Baldwin County Barbour County Bullock County Calhoun County Chambers County Cherokee County Chectaw County Conecuh County	1						
Colhoun County	1 1			Garland County Grant County			
Chambon Country				Creat County	1		
Chambers County	2			Grant County	1	1	
Cherokee County		2	1	dicens coming	1		
Choctaw County	2			Hempstead County	- 6		
Conecuh County	******		1	Howard County	2	1	
Crenshaw County		1	1	Independence County	2	2	
Cheetaw County Coneeuh County Crenshaw County Cullman County Ballas County Escambia County Escambia County Franklin County Jackson County Jackson County Laurar County Laurar County Laurar County Lawrence County Lawrence County Lawrence County Lowndes County Macon County Macon County Marion County Marion County Marion County Marion County Mobile County Montgomery County Montgomery County Montgomery County Montgomery County Montgomery County Sumter County Sumter County Talladega County Tuscaloosa County Tuscaloosa County Tuscaloosa County Walker County		1		Grant County Greene County Hempstead County Howard County Independence County Izard County Jackson County Lewrence County		1	
Dallas County	1	2	1	Jackson County	47		
Escambia County	1			Lee County	1		
Etowah County	3	3	3	Lee County	5		
Franklin County			9	Little River County		1	
Tackeon County	1		12	Little River County	1	1	
Jackson County		0	13	Longha Country			
Jenerson County			1	Logan County Lonoke County Monroe County Ouachita County Prairie County Pulaski County St. Francis County Saline County Sepastian County.	, A	- 4	
Lamar County	1			Monroe County			
Lauderdale County	12			Ouachita County	14	12	
Lawrence County	1			Prairie County	1	2	
Lee County	2	1		Pulaski County	2	1	1
Limestone County	2	2		St. Francis County	20	3	
Lowndes County	3			Saline County			
Macon County	2			Sebastian County Union County	3	1	
Madison County	-	6		Union County	3	3	
Manage Country		0		White County			
Marengo County	1	2	2	White County Woodruff County		1	
Marion County			1	woodfull County	2		
Marshall County		2		m			
Mobile County			. 1	Total	152	54	
Monroe County	1	2	1	California:			-
Montgomery County.		4	1	Los Ancolos Countre	9	9	
Morgan County		1		Los Angeles County San Diego County	- 0	- 0	
Perry County			3	San Diego County			
Randolph County			1	Santa Clara County	1		
Shelby County	2	******	i i				-
Sumter County	1		1	Total	4	3	
Talladam Country	1	9		Florida:			
Talladega County			1	Alachua County Bradford County			
Tanapoosa County		4		Alachua County		1	
Tuscaloosa County Walker County	7	2	7	Bradford County Duval County Franklin County Gadsden County Hillsborough County, Lake County.		1	
Walker County	3	1		Duval County	2		
Winston County		1	2	Franklin County		2	
				Gadsden County		2	
Total	65	51	47	Hillsborough County.	2		
				Lake County		. 1	
rkansas:				Madison County		1	
Achlay County	10	1	1	Marian County		0	
Calbarta County	1.0	1	1	Starron County		2	
Camoun County	1	1		Paint Beach County			
Curron County			1	Lake County Madison County Marion County Palm Beach County Pasco County			
Clark County	1			Pinellas County		1	*****
Cleveland County	2			Pinellas County Putnam County St. Johns County		1	
Columbia County			1	St. Johns County		2	
Creighead County	9	5		Seminole County		1	
Ashley County Ashley County Calhoun County Carroll County Clark County Cleveland County Columbia County Creighead County. Crawford County Crawford County Cross County	2						
Cross County	2			Total	A	16	
	-			#1791EL		4.0	

PELLAGRA—Continued.

Dice	New	cases rep	orted.	D1	New	cases rej	port
Place.	July.	August	Fep- tember.	Place.	July.	August	ten
Illinois:							
Cook County	1			Mississippi—Continued. Leake County	1	5	
Kansas:				Lee County	4	3	1
Sedgwick County	1			Leflore County.	53	27	ì
congress country	-			Lincoln County	13	12	
Louisiana:				Lincoln County Lowndes County	4	3	
Caddo Parish	6		1	Madison County	.1 28	4	
Caldwell Parish	1			Marion County Marshall County	8	5	
Concordia Parish	1	*******	1	Marshall County	2	6	
De Soto Parish East Baton Rouge	2			Monroe County Montgomery County.			
Parish Rouge	1			Neshoha County		9	
Parish East Feliciana Parish	1			Newton County Noxubee County	3		1
Frankin Parish				Noxubee County	1	2	
Therville Parish	1	1		Oktibbeha County	4		
Jackson Perish. Lincoln Parish	2			Panola County	8	5	1
Lincoln Parish			1	Pearl River County	2	5	
LIVINGSION PARISD		1		Pearl River County Perry County Pike County	1	2	
Madison Parish	8			Partoto County	3	3 1	
		1		Pontotoc County	26	56	
Orleans Parish Rapides Parish	3 2	3	*******	Quitman County Rankin County	3	1	
Royl River Perish	2	3	1	Scott County	9	4	
Red River Parish Richland Parish	2	1		Sharkey County		7	
Winn Parish		i		Simpson County		2	
				Stone County Sunflower County	1		
Total	32	10	4	Sunflower County	75	34	
Maryland:				Talianatchie County.	31	41	
Baltimore city:			1	Tate County	19	9	
Distribute City				Tishomingo County	6 2	4 2	
Massachusetts:				Tunica County	23	22	
Essex County	2			Union County	2	2	
Hampshire County	1			Walthall County	ī		
Middlesex County	1	1	·····i	Walthall County Warren County	9	4	
Suffolk County	1	1	1	washington County	52	31	
Total	5	2	1	Wayne County		1	
Total	0	-		Webster County	1		
Michigan	2			Wilkinson County Yalobusha County	4	3	
		*******		Yazoo County	1 20	1 6	
dississippl: Adams County	3	2	5	Tako County	60	-	
Alcorn County	4	5	1	Total	880	608	
Alcorn County	2						
Attala Coupty	ī			New Mexico:			
Benton County Bolivar County	1		·····i	Bernalillo County			
Bolivar County	170	117	54				-
	9	3	5	Oklahoma:			
Chickasaw County	4	3		Love County Mayes County	*******	1 2	
Clarke County Clay County	8	2	4	may county			
Coahoma County	68	43	23	Total		3	
Coahoma County Copiah County	18	11	7				_
Covington County			7	Pennsylvania:			
De Soto County	15	14	9	Philadelphia County.	1	1	
Forrest County		9	10				
Franklin County		1	3	South Carolina:			
George County	5	6 3	3	Cherokee County	******	1 2 1	
Greene County Grenada County	4		3	Chester County Green ville County York County County not stated	******	1	****
Harrison County		1	0	York County			
Hinds County	14	8	14	County not stated	1		
Holmes County	94	24					
Humphreys County Issaquena County	35	13	4 7	Total	1	4	
Issaquena County		2			The same of the sa		_
			2	Virginia:			
Jasper County	9	2	4	Accomac County Appomattox County.			
Jenerson County	6		3	Appoint tox County.		1	
Jefferson Davis				Bennamick County		1	
County	4	5	1	Campbell County	1		
Jones County	6	9	4	Carroll County	1	******	
Kemper County	8	5	1	Appomattox County Bearord County Brunswick County Campbell County Carroll County Craig County Dickenson County Dinwiddie County		1	
Lafayette County Lauderdale County Lawrence County	3	2	7	Dickenson County	1		

PELLAGRA—Continued.

701	New	cases rep	ported.		New	v cases rej	ported.
Place.	July.	August	Sep- tember.	Place.	July.	August	Sep- tember
Virginia—Continued. Floyd County. Greensville County. Giles County. Henry County. Isle of Wight County. Lee County. Louisa County.	2 1 1	1	1	Virginia—Continued. Patrick County. Scott County. Smyth County Southampton County Spotsylvania County. Sussex County. Washington County.	1 1	1 1 1 1	
Lunenburg County. Mecklenburg County. Montgomery County.	1 1 1	1 2	5	Total	29	13	3
	-	1	PLAGUE,	HUMAN.		•	-
California:				Hawaii:		1	1
San Francisco		1		Hawaii—Hamakua			1
	P	OLIOM	YELITIS	(infantile paralysis).			
Alabama:				Connecticut:		1	
Calhoun County		1		Fairfield County Hartford County	1 4	4	1
Etowah County Jefferson County Marshall County Mobile County	1			Litchfield County			
Jefferson County	1	3		Middlesex County		. 1	
Marshall County	1	******		New Haven County	2	10	1
Mobile County	*******	1	2	New London County.	2	2	
Randolph County Walker County		1 2	2	Windham County	******	******	
Washington County		-	*******	Total	9	17	24
Total	3	10	2	District of Columbia			3
Arizona:	-			Florida:			
Maricopa County	1			Duval County Hillsborough County.		2	
Arkansas:				Polk County	******	******	1
Renton County		2	3	I our county treatment	******		
Crawford County Franklin County Lonoke County		ī		Total		2	2
Franklin County	1	1		Tilleries			
Washington County		1	i	Illinois: Adams County			2
White County	1			Champaign County		*******	1
				Clark County		1	
Total	2	4	4	Cook County	4	23	28
Tall Carrier				Crawford County		1	·····i
California: Alameda County		1		Effingham County		******	1
Zimmedia Country	******	1	*******	Favette County		1	1 2
Kern County		2	1	Ford County		1	
Kings County				Hancock County			1
Kings CountyLos Angeles County—		1		Antibotic Country		2	1
Kern County Kings County Los Angeles County— Los Angeles	21	6	11	Hardin County			
Los Angeles	21	6	17	Hardin County Jackson County	1		9
Scattering Mendocino County	2	6	11 17	Champaign County. Clark County. Cook County. Crawford County. Du Page County Effingham County Fayette County. Haneoek County. Hardin County. Hardin County. Kane County Kane County			3
Scattering Mendocino County	2	6	17				3
Scattering Scattering Mendocino County Napa County Riverside County San Bernardino	1	6	17				3
Scattering Scattering Mendocino County Napa County Riverside County San Bernardino	1	8 1 1 1 3	17				3 1 1
Scattering Scattering Mendocino County Napa County Riverside County San Bernardino	1	6 1	17 2 7				3 1 1 1
Scattering. Mendocino County. Napa County Riverside County. San Bernardino County. Sacramento County. San Diezo County.	1 2	6 1 1 3 1	17	Lake County Livingston County McHenry County McLean County Macon County	1	1	3 1 1 1 1 1
Scattering. Mendocino County. Napa County Riverside County. San Bernardino County Sacramento County Sar Diego County. San Parpeiseo County San Parpeiseo County	1 2 2	8 1 1 1 3	17 2 7	Lake County Livingston County McHenry County McLean County Macon County	1	1	3 1 1 1 1 1
Scattering. Mendocino County. Napa County Riverside County. San Bernardino County. Sacramento County. San Diezo County.	1 2 2	6 1 1 3 1	17 2 7	Lake County Livingston County McHenry County McLean County Macon County	1	1	3 1 1 1 1 1
Scattering. Mendocino County. Napa County. Riverside County. San Bernardino County. Sacramento County. San Diego County. San Prancisco County. San Joaquin County.	1 2	3 1	17 2 7	Lake County Livingston County McHenry County McLean County Macon County	1	1	1 1 1 1 1
Scattering. Mendocino County. Napa County Riverside County. San Bernardino County Sacramento County Sar Diego County. San Parpeiseo County San Parpeiseo County	1 2 2	6 1 1 3 1	17 2 7	Lake County Livingston County McHenry County McLean County Macon County	1	1	1 1 1 1 1
Scattering. Mendocino County. Napa County Riverside County San Bernardino County. Sacramento County. San Diego County. San Diego County San Joaquin County. Total.	1 2 1 2 8	3 1 23	17 2 7	Kankakee County. Lake County. Livingston County. McHenry County McLean County. Macon County Madison County Marion County. Marshall County. Marshall County Morgan County.	1	1 1	1 1 1 1 1
Scattering. Mendocino County. Napa County Riverside County San Bernardino County. Sacramento County. San Diego County. San Diego County San Joaquin County. Total.	1 2 1 2 8	3 1	17 2 7	Kankakee County. Lake County. Livingston County. McHenry County McLean County. Macon County Madison County Marion County. Marshall County. Marshall County Morgan County.	1	1 1	3 1 1 1 1 1 1 1
Scattering	1 2 1 8 8	3 1 23	17 2 7 1 1 40	Kankakee County. Lake County. Livingston County. MeHenry County. Macon County. Macon County. Marison County. Marison County. Marshall County. Marshall County. Morgan County. Morgan County. Randolph County. Randolph County.	1	2 1 1 1	3 1 1 1 1 1
Scattering. Mendocino County. Napa County Riverside County. San Bernardino County. Sacramento County. Sar Piego County. San Francisco County San Joaquin County.	1 2 1 8 8	3 1 23	17 2 7 1 1 40	Kankakee County. Lake County. Livingston County. MeHenry County. Macon County. Macon County. Marison County. Marison County. Marshall County. Marshall County. Morgan County. Morgan County. Randolph County. Randolph County.	1	2 1 1 1	3 1 1 1 1 1 1 1
Scattering	1 2 1 1 8	3 1 23	17 2 7 1 1 40	Lake County Livingston County McHenry County McLean County Macon County	1	2 1 1 1 1	3 1 1 1 1 1 1 1

POLIOMYELITIS (INFANTILE PARALYSIS) -Continued.

	New	cases rej	ported.	-	New	cases rep
Place.	July.	August.	Sep- tember.	Place.	July.	August
llinois—Continued.				Louisiana:		
Washington County	1			Avoyelles Parish Bossier Parish Caddo Parish		1
Whiteside County	1		*******	Caddo Parish	1	
Total	11	37	54	De Soto Parish Orleans Parish	1	1
dlana:						
Clay County			1	Total	. 3	2
Marion County			1	Maine:		
Lake County	*******		1	Cumborland County		1
White County	*******		1	Washington County York County		
Total			5			1 2
wa:				Total		2
4.5 /2 /			2	Maryland:		1
Boone County			1	Allegany County Baltimore County	1	
Cerro Gordo County	******	1		Garrett County		1
Floyd County	*******	i	1	Total		2
Adams County Boone County Cass County Cerro Gordo County Floyd County Harrison County Jasper County Johnson County Kossuth County Marshall County Mills County		3	1	Massachusetts:		
Johnson County	******	1	i	Barnstable County		1
Kossuth County			1	Barnstable County Berkshire County Bristol County Essex County Franklin County Hampden County		1
Marshall County	******		3 2	Essay County	1	2 3
Mitchell County			î	Franklin County		2
Monona County		1	1	Hampden County	1	1
Mills County		1		Middlesex County	2	2
Fottawattamie Count	Y	0	9	Hampden County Hampshire County Middlesex County Norfolk County		
Scott County		2	2	Suffolk County Worcester County	1 2	8
Total		22	24	Total	8	26
nsas:	Con Walland	-		Total		20
Atchison County		1	1	Allegan County	1	1
Brown County		1	2	Foton County		
Cherokee County	î			Ingham County		
Cloud County			1	Genesee County Ingham County Lapeer County Mecosta County		
Decatur County			1	Mecosta County		1
Dickinson County		6	1	muskegon County		2
Douglas County	1	2		Washtenaw County		1
Atchison County. Brown County. Brown County. Cherokee County. Cloud County Cowley County. Dickinson County. Dickinson County. Douglas County. Geary County. Gerenwood County Harvey County Jefferson County Jewell County Johnson County.		3	·····i	Wayne County	1	2
Harvey County		1	2	Total	3	7
Jewell County	1	1	2	Minnesota:		
Johnson County Labette County Lyon County Marion County.		1		Rigetone County		1
Lyon County		1		Blue Earth County Chippewa County		1
Marion County		2		Cottonwood County Hennepin County Itasca County Mahnomen County Marshall County Meeker County Morrison County Mower County		î
Montgomery County.		1	1	Hennepin County		1 2
Montgomery County. Norton County Osage County. Phillips County. Pottawatomic County Republic County		1	2	Mahnomen County	1	1
Phillips County		i	2	Marshall County		1
Republic County		3	····i	Meeker County		1
Riley County			1	Mower County		
Saline County	1	1		Murray County		
Shawnee County	1			Ramsey County		1
Reley County		28	6	Mower County		
Dover Topeka R. F. D Smith County		2		St Louis County		1
Smith County		9	·····i	onerburne County		ai l
Sumner County		1		Todd County Watonwan County		1
Washington County	1	1	2	Todd County Watonwan County Winona County	1	
Wyandotte County			1	Wright County		
Total	8	70	29	Total	4	15

STATE REPORTS FOR JULY, AUGUST, AND SEPTEMBER, 1923—Continued. POLIOMYELITIS (INFANTILE PARALYSIS)—Continued.

	New	cases rep	ported.		New	cases rep	orted.
Place.	July.	August.	Sep- tember.	Place.	July.	August.	Sep- tember
Mississippi:				New York-Continued.			
George County	1			Washington County			
Harrison County	1			Wayne County Westchester County			
Holmes County	1			Westchester County	1	8	1
Jasper County			2				
Mississippi: George County Harrison County Holmes County Jasper County Marion County Warren County	1		·····i	Total	127	231	19
Total		1		North Carolina: Caswell County	1		
fontana:				Caswell County. Davidson County. Durlin County. Guilford County Johnston County. Orange County.	1	1	
Cascade County		1	2	Guilford County		1	
Lincoln County			2	Johnston County			
Missoula County		2	·····i	Orange County			
Cascade County Lincoln County Missoula County Teton County			1	Total	2	2	
Total		3		Total			
Vebraska	3	39	32	North Dakota: McHenry County McKenzie County Pierce County			
COURSED	3	39	32	McKenzie County		1	
lew Jersev:				Pierce County			
Atlantic County		9		McKenzie County Pierce County Ramsey County Ward County			
Atlantic County Bergen County Burlington County Camden County		9	6	Ward County		1	
Burlington County		4	2	Williams County		3	
Camden County		î					
Essex County	1	10	12	Total		5	
Hudson County	3	10	9				
Hunterdon County			1	Ohio:			
Mercer County		1	1	Ashtabula County			
Middlesex County	3			Auglaize County	3		
Monmouth County	1	1	3	Butler County			
Morris County	1	1	1	Cuyahoga County	2	2	
Mercer County Middlesex County Monmouth County Morris County Passaic County		3	1	Darks County			
Somerset County Union County	1	1	2	Franklin County	1	1 2	
Chion County	9	1		Jefferson County	i	-	
Total	13	43	39	Ohio: Ashtabula County Aughaize County Butler County Cuyahoga County Crawford County Franklin County Jefferson County Lorain County Madison County Mercer County Mercer County Paulding County Paulding County Protage County Richland County Trumbull County Wood County Trumbull County Wood County Total			1
				Madison County		2	
ew Mexico:				Mercer County		1	
Bernalillo County			1	Montgomery County.		1	
				Paulding County		1	
ew York:				Pichland County			
Albany County	1	0	3	Summit County			
Broome County			2	Trumbull County	9		i
Albany County Broome County Chautauqua County Chenango County		3	4	Wood County	-		j
Columbia County			i	Troota country			
Delaware County			î	Total	9	10	18
Dutchess County	2	1	4				
Erie County		4	6	Oklahoma:			
Greene County		1		Blaine County		1	
Chenango County Columbia County Delaware County Dutchess County Eric County Greene County Herkimer County Jefferson County Lewis County Madison County Monroe County	1		1	Blaine County Coal County Garvin County		1	
Jefferson County	*****	1	1	Garvin County			
Lewis County		2		W-4-3		2	1
Madison County			1	Total		-	
Monroe County			2	Oregon:			
Now York City	100	164	129	Baker County			1
Nigrara County	100	2	1	some country			
Oneida County		ī		Pennsylvania:			
Onondaga County		5	4	Allegheny County	1	3	2
Ontario County		2		Blair County		1	
Madison County Monroe County Nassan County New York City Niegara County Oneida County Onondaga County Ontario County Orange County Otsego County Rensselaer County	5	15	3	Bucks County			1
Otsego County		3	3	Butler County		1	. 2
Rensselaer County		1		Cambria County		1	
Rensselaer County Rockland County St. Lawrence County. Schenectady County.		1	- 4	Chester County			1
St. Lawrence County.		1 .		Columbia County			1
Schenectady County.			1	Crawford County			1
Schuyler County			1	Delaware County		1	
Steuben County			1	Erie County	1		1
Suffolk County	4	3	2	Lackawanna County.		1	
Schenectady County Schuyler County Steuben County Suffolk County Sullivan County Tioga County		2	2	Pennsylvania: Allegheny County Blair County Bucks County Butler County Chester County Chester County Columbia County Columbia County Delaware County Lackawanna County Luzerne County Luzerne County		3	
Tioga County		1 .		Luzerne County	3	8	16
	- 1	4 .		Mali car Carrentes			

POLIOMYELITIS (INFANTILE PARALYSIS) -Continued.

1 2 23	49	Virginia—Continued. Lee County. Montgomery County. Nelson County. Northampton County Pittsylvania County. Powhatan County Prince George County Prince William County. Pulaski County. Shemandoah County. Shemandoah County. Stafford County. Sussex County. Washington County. Wise County. Wythe County.	1 1 1 1 1 1 2	1 2	
1 23 2 2 2	49	Lee County Mentgomery County Nelson County Northampton County Pittsylvania County Powhatan County Prince George County Prince George County Prince William County Shenandoah County Spotsylvania County Stafford County Sussex County Washington County Washington County Wythe County	1 1 1 1 2 2 	1 2	
1 23 2 2 2	49	Lee County Mentgomery County Nelson County Northampton County Pittsylvania County Powhatan County Prince George County Prince George County Prince William County Shenandoah County Spotsylvania County Stafford County Sussex County Washington County Washington County Wythe County	1 1 1 1 2 2 	1 2	
1 23 2 2 2	49	Montgomery County, Nelson County Northampton County Pittsylvania County. Powhatan County. Prince George County Prince William County. Shenandoah County. Spotsylvania County. Stafford County. Sussex County. Washington County. Wyshington County. Wythe County.	1 1 1 1 2 2 	1 2	
1 23 2 2 2	49	Northampton County Pittsylvania County. Powhatan County. Prince George County Prince William County. Pulaski County. Shenandoah County. Spotsylvania County. Sussex County. Sussex County. Washington County. Wythe County.	1 1 1 1 2 2 	1 2	
1 23 2 2 2	49	Northampton County Pittsylvania County. Powhatan County. Prince George County Prince William County. Pulaski County. Shenandoah County. Spotsylvania County. Sussex County. Sussex County. Washington County. Wythe County.	1 1 1 1 2 2 	1 2	
1 23 2 2 2	49	Prince George County Prince George County Prince William County Pulaski County Shenandoah County Spotsylvania County Stafford County Sussex County Washington County Wise County Wythe County	1 2 13 19	1 2	
1 23 2 2 2	49	Prince George County Prince George County Prince William County Pulaski County Shenandoah County Spotsylvania County Stafford County Sussex County Washington County Wise County Wythe County	1 2 13 19	1 2	
1 23 2 2 2	49	Prince George County Prince William County Pulaski County Shenandoah County Spotsylvania County Stafford County Sussex County Washington County Wise County Wythe County	1 2 13 19	1 2 4	40
1 23 2 2 2 1 1 1 3 1 3 1 1 3 1 1 1 1 1 1	49	Spotsylvania County. Spotsylvania County. Stafford County. Sussex County. Washington County. Wise County. Wythe County.	13 19	1 2	
23 23 2 2 2	49	Spotsylvania County. Spotsylvania County. Stafford County. Sussex County. Washington County. Wise County. Wythe County.	13 19	4	49
23 23 2 2 2	49	Spotsylvania County. Spotsylvania County. Stafford County. Sussex County. Washington County. Wise County. Wythe County.	13 19	4	49
2 2		Spotsylvania County. Spotsylvania County. Stafford County. Sussex County. Washington County. Wise County. Wythe County.	13 19	4	49
2 2		Spotsylvania County. Stafford County. Sussex County. Washington County. Wise County. Wythe County.	13 19	4	40 .
. 1		Wise County Wythe County			1
. 1		Wise County Wythe County			1
. 1		Wise County Wythe County			1
. 1		Wythe County	1 1		
1		Wythe County	1		
1					
1	1	Total			******
1	1		57	20	1
		Washington			
		Washington:			
	1	King County Pierce County Spokane County Whatcom County Whitman County.	1	4	
	1	Pierce County	*******		
	1	Spokane County	******	1	
. 1		Whatcom County	******	1	
1		William County	*******		
	6	Total	1	7	
		West Virginia:			
		Boone County		5	
. 1	4	Cabell County		5	
4	2	Fayette County			1
. 1		Monongalia County			1
. 2	1	Counties not stated	7		
	1				
	1	Total	7	10	5
	2			-	
. 1		Wisconsin:			
		Dodge County		2	1
9	11	Fond du Lac County	1		
-		Jackson County			
		Jefferson County			1
1		Kenosha County	1		
		Manitowoe County			
	1	Milwaukee County	2	7	1 3
. 3		Trempealeau County			1
4		a conficuency			
	1	Total	4	9	. 5
1		A 171504 **** 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-	-	-
	1	Wyoming			
1		Sheridan County	1		
1	2222222	Weston County		1	******
	******	reston County	******		******
	******	Total			
	5 3 4 2	5 3 6 1 4 2 1	Total West Virginia: Boone County Cabell County West Virginia: Boone County Cabell County Total Total Total Total Wisconsin: Bodge County Jackson County Jackson County Jackson County Jackson County Manitowoe County Manitowoe County Trempealeau County Total Wyoming: Sheridan County Sheridan County Sheridan County Weston County Weston County Total Wyoming: Sheridan County Sheridan County Weston County Weston County Weston County Total Wyoming: Sheridan County Total Total	Total Tota	Total Tota

1

Total.....

2

1

	New	cases rep	orted.		New	cases rep	orted.
Place.	July.	August.	Septem- ber.	Place.	July.	August.	Septer ber.
Mabama:				Florida—Continued.			
93 41 /2	2			Hillsborou h County.	1		
Cherokee County			1	Leon County	1		
Chilton County		1		Total	7	1	
Chilton Co inty Choctaw Connty Jefferson County Lamar County		1	1	TOTAL		1	
Jefferson County		1	2				
Lamar County		4	1	Idaho:			
				Adams County	1	******	
Talladega County	i			Bannock County Benewah County	2	1	
I amont gu county	-			Idaho County		î	
Total	3	8	5	Kootenai County		6	
rizona: Yavapai County	3			Total	3	8	
Tavapar County	9			W117 1			
Arkansas:				Illinois:			
Ashley County	1 6		******	Carroll County	18	2	
Benton CountyClay County	0	1		Cook County. De Witt County. Fayette County. Franklin County. Grundy County.			
Columbia County	2 2	3	6	Fayette County		1	
Cross County	9			Franklin County		1	
Hempstead County				Grundy County		3	
Lafayette County		1		Jo Daviess County Kane County	1 7		
Lafayette County Lawrence County	1			Lake County			
Mississippi County Quachita County	2		1	La Salle County			
Pike County	1		i	La Salle County Macon County	3	11	
Pike County Union County	2	*******	8	Madison County		1	
Woodruff County	5			Montgomery County. Rock Island County	1		
				Rock Island County	2 2	4	
Total	31	5	17	St. Clair County	- 2	1	
	-		-	Sangamon County	1		
California:			9	Vermilion County Whiteside County	2		
Alameda County	4	1	3	Will County	1		
Eldorado County	1						-
Inyo County Kern County			1	Total	39	24	
Lake County	******	4					
Lake County Los Angeles County— Los Angeles Pomona		40		Indiana:			
Los Angeles	36	40	9	Adams County	1	1	
Pomona	33	14 36	19	Allen County	1	1	
Scattering Monterey County		2	10	Blackford County	******	1	
Orange County	2	1	1	Cass County			
Placer County	1			Dekalb County	3		
San Bernardino				Delaware County	24	9	
County-	9/0	111		Favelte County		2 2	
Chino Scattering	13 18	11	1	Grant County			
San Diego County	18	3	1	Hendricks County			
San Francisco County	1	1		Howard County Huntington County		1	
San Joaquin County		1		Jay County	_	7	
San Joaquin County. Santa Barbara County.	1	*****		Kos iusko County	1		
Santa Clara County	4			Lake County	18		1
Stanislaus County	3	2	******	Laporte County	4	3	
Tulare County Ventura County	2			Lawrence County	1		
Cutura County		-		Madison County			
Total	135	119	38	Miomi County	2		
			-	Monroe County	2	2	
Colorado:	-			Forter County		. 2	
Boulder County	1	*****		Randolph County	. 2		
Rio Grande County	- 1	******		Rush County			
Total	2			St. Joseph County Steuben County			
				Tipton County	. 1		
Connecticut:		. 11	2			. 1	
New Haven County		-1 11	-	Vigo County		1	-
			1 40	Wabash County	. 1	1	
District of Columbia	1	2	19	Wells County	. 1	1	

SMALLPOX-Continued.

	New	cases re	ported.		New	cases rep	01
Place.	July.	August.	Sep- tember.	Place.	July.	August	1
owa:				Michigan—Continued.			1
Appanoose County	1	1		Huron County	6	1	ı
Black Hawk County	î			Ingham County	1	2	ı
Black Hawk County. Clinton County			3	Ionia County		ī	1
Lagner County	*******			Isabella Count :	*******	i	1
Jasper County Linn County		******	1	Isabella Count / Jackson County	7	8	1
Linn County	- 2	******	1	Kent County		0	i
Plymouth County Polk County	1			Kent County	1		1
Polk County	6	2		Lenawee County Mackinac County	1		
Scott County	11		8	Mackinac County	3		-
Union County		1		Marquette County	·····i		
				Mecosta County Menominee County	1		
Total	22	14	13	Menominee County	2	2	
				Oakland Ottawa County	*******		l:
ansas:				Ottawa County	2	2	1
Anderson County	1			Saginaw County	1		£.
Butler County	1		7	Saginaw County Sanilac County		1	1
Chase County		1		Shiawassee County Van Buren County	41	5	1
	1			Van Buren County	1		
Coffey County Crawford County	3	*******		Wayne County	44	16	1
Crawford County	1						-
			1	Total	118	51	1
Harvey County Lyon County Meade County Miami County	1	*******	1	AUGU	AAC		_
Horvey County	1	1	5	Minnesota:			
Laron County	2		9	Beltrami County	1		
Mondo County	-	******	*******	Bigstone County		1	**
Mismi County	*******		13	Bigstone County	2	2	**
Mantagar County	1	5		Carlton County Chippewa County	2	4	* *
montgomery County,		5		Chippewa County		******	
Reno County	1	*******	1	Chisago County	1	1	
Sedgwick Count 7	1			Clearwater County Crow Wing County	1	1	**
Trezo County	1			Crow Wing County			
Wichita County Woodson County		1		Dagota County	9		* *
Woodson County		1		Donglas County	1		
Wyandotte County !	1			Fillmore County	1		
Total	17	9	27	Grant County			
				Hennepin County	8	4	
ouisiana:				Itasea County Kittson County Koochiching County.			
Caddo Parish	7	3	1	Kittson County	1		
Caldwell Parish		1	î	Koochiching County	i	7	-
				Lac Qui Parle County	4	i	
Crant Parish	*******		î			2	
Grant Parish Herville Parish La Salle Parish Lincoln Parish	******			Nicollet County Ottertail County	2	4	
La Salla Pariah		1		Ottortoil County	î	*	
Lincoln Device	1	*******	******	Polk County	18	1	**
Lincoln Parish		1	22	I OIR COULTY			
Morehouse Parish Ouachita Parish	*******	1	22	Ramsey County	13	5	
Ouachita Parish	3	*******	******	Red Lake County	2	1	***
Richland West Carroll Parish	1			Rock County		*******	
west Carroll Parish	1	*******		St. Louis County Scott County	9	6	
m-4-1		-		Scott County		7	
Total	13	7	26	Wabasha County	1		
				Winona County	8	1	
aine:				m-4-1	00	AC	The sales
Cumterland County.	******	.3	******	Total	80	43	
				Mindaglands			-
aryland:				Mississippi:			
Baltimore City		1	1	Benton County	1		
Baltimore City Baltimore County Prince George County		******	1	De Soto County	******	1	
Prince George County		*******	5	Landerdale County	2	2	
		-		Lee County Pearl River County	2		
Total		1	7	Pearl River County		5	
assachusetts:		1		Prentiss County Tate County Warren County			
Bristol County	1	******		Tate County	4		
Middlesex	î			Warren County	2		
	-			wasnington County		1	
Total	9			Wayne County	*****	î	
***************	-	******					
ichigan:				Total	22	- 10	
Alger County	1	-		4.05004	64	AU	
Pager County		1	******	Montana:		-	
bernen County	3			Montana:	0		
Charlevoix County			7	Dawson County Deer Lodge County	8	*******	
Cheboygan County	4	******		Deer Lodge County	2	1	
Clare County			2	Fergus County		*******	
Clare County Clinton County Genesee County Gratiot County	1	1		Flathead County Granite County	3	2	
				Cranita County	1		
Genesee County		2	····i	Missoula County	4	1	* * *

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SMALLPOX-Continued.

	Nev	v cases re	ported.		New	cases
Place.	July.	August.	Sep- tember.	Place.	July.	Augus
fontana—Continued. Musselshell County Ravalli County		. 5	4 11 5	North Carolina—Contd. Wayne County Wilson County	1	
Silver Bow County Wheatland County Yellowstone County	1	2		Total	118	88
Total			32	North Dakota: Cass County	3	
ebraska	-		3	Cavalier County		. 1
Draska	******	9	3	Emmons County Grand Forks County.	3	
ew Jersey:				Grant County		2
Bergen County	2			La Moure County		4
			1	Ramsey County Renville County	3	12
Hudson County Mercer County	7		1	Richland County	2	1
		-				-
Total	17		1	Total	12	22
ew Mexico:		1		Ohio:		
Colfax County		3		Allen County	1	
w Vosh		-		Belmont County	2	2
ew York: Chautauqua County	4	6	2	Butler County Coshocton County	1	2
Erie County	10	4	2	Cuyaboga County	6	10
Erie County New York City Niagara County—	10			Cuyahoga County Darke County	17	1
Niagara County—				Defiance County	20	8
Niagara Falls	3	12	1	Ene County	4	1
La Salle Scattering	21	2	2	Franklin County		
Demote and Section 1		- 1		Fulton County	2	1
Total	56	25	7	Guernsey County	19	
rth Carolina:		_		Hamilton County	2	1
Beaufort County	1		1	Hancock County Hardin County	1 2	1
Cabarrus County	6	2	1	Henry County	3	
Carteret County			1	Henry County		1
Caswell County	5			Jackson County	1	
Catawba County Chatham County	1	1	1	Knox County Lawrence County		1
Cherokee County		3	2	Lorsin County	1	
Cleveland County	6	1	2	Lucas County	7	10
Columbus County	2 5	2	5	Madison County	3	1
Cumberland County.	5	3	3	Mahoning County	3	
Davidson County Davie County	1	1	3	Marion County	2	·····i
Durham County	3	6	1	Monroe County. Montgomery County.	3	
Forsvin County	13	13	4	Muskingum County	ĭ	
Franklin County Gaston County	2	******		Paulding County		
Granville County	6	11	2	Preble County Putnam County	1	
Guilford County	18		1	Richland County	1	
Halifax County			1	Ross County	2	
Tredell County	2	1	2	Scioto County	3	
Johnston County Jones County	1	1	1	Summit County Tuscarawas County	2	
Lenoir County	1	******		Vinton County	2	
Lincoln County		6	2	Williams County	8	3
McDowell County		1		Wood County	3	5
Mecklenburg County. Mitchell County	19	5	10	Total	104	40
Nash County	1	1		Total	124	46
Orange County	4	3		Oklahoma:		
Pitt County	2	3	2		2	
Polk County Rockingham County.	1	3	5	Garfield County Grady County		
Rockingham County.	3	4 2		Grady County		1
Rowan County Sampson County	2	1	2	Harper County	4	8
Scotland County	1	1		Jefferson County	7 3	8
Stanly County Swain County	4			Logan County		
Swain County	1	10	2	Jackson County Jefferson County Logan County Marshall County Mayes County Rozers County		1
Union County Vance County		2	2	Mayes County Rogers County Tittman County		

SMALLPOX-Continued.

	Nev	cases re	ported.		New	cases re
Place.	July.	August.	Sep- tember.	Place.	July.	August
klahoma—Continued.				Virginia—Continued.		
Tulsa County	. 8		3	Henry County	5	
Wagoner County	2			Isle of Wight County.		1
				Lunenburg County		1
Total	30	10	6	Rosnoke County Smyth County	1	1
		-	1	Tazewell County	1	
gon: Baker County	0	1		Tazewen County	3	******
Clackamas County		î		Total	23	3
Clatson County		î		200000000000000000000000000000000000000	40	
Coos County		2		Washington:		1
Coos County	2	2	·····i	Clarke County	15	18
Douglas County	2	2 2	1 2		1	10
Hood River County	3	-	2	Franklin County Grays Harbor County Jefferson County	3	1
Josephine County Lane County	2 3	4	1	Jefferson County	2	1
Marion County	0		7	King County	4	
Multnomah County-		*******		Seattle	12	3
Multnemah County- Portland	25	20	4	King County— Seattle Scattering.	2	
Scattering	1	******	1	Encertait County	1	
Umatilla County	1	*******	******	Lewis County		4
Wasco County	3	1	*******	Pacific County	1	2
Washington County	******	1	4	Pend Oreille County. Pierce County	*******	5
Total	62	36	20	Snohomish County	2	8
A V 601	04	90	40	Spokane County—	2	
nsylvania:				Spokane	16	8
Allegheny County	10	2		Scattering	4	2
Cambria County Delaware County Philadelphia County.	1		*******	Thurston County		1
Delaware County	1	- 4	******	Walla Walla County .	2	2
Philadelphia County.	5 5	*******	*******	Whatcom County Yakima County		1
York County	9		******	Takimi County	. 1	
Total	22	6		Total	67	68
h Clambina	-			West Virginia:		
h Carolina:		1		Logan County	0	2
Charleston County	*******	2	******	McDowell County	2	î
Anderson County Charleston County Edgefield County	4	-	*******	Mingo County	1	i
Greenville County	1	3		Mingo County Nicholas County	î	
Laurens County			4			
Lexington County			2	Total	8	4
Deonee County	1		*******	Wisconsin:		
Orangeburg County Pickens County	*******		2	Barron County	1	2
		2		Bayliera County		
Spartanburg County.	*******	2	******	Enriell County	1	1
Total	7	8	8	Clark County Columbia County	10	2
	-			Dodge County	4	******
th Dakota:				Donglas County	6 12	9
Beadle County	1		******	Eau Claire County	1	
Day County Dewey County	1		4		- 1	
Moody County	1	1	24	Jefferson County	3	1
SIGNAL CHILLY			10	Jefferson County Kenosha County La Crosse County	17	4
Ziebach County		******		Marathon County	4	******
Ziebach County		1	38	Milwaukee County	1	*******
Ziebach County	3			Ozankee County	1	0
Ziebach County Total	3		-		A	
Total				Papin County	1	
Total Total Addison County Shittenden County	1 19	14	5	Papin County	1	2
Total Total iont: ddison County hittenden County iran I Isle County	1 19 1		5	Papin County	1	2
Total Total ddison County ddison County ran I Isle County	1 19 1	14		Racine County Rock County Sawyer County	1	2
Total Total ddison County ddison County ran I Isle County	1 19 1	14	52	Pepin County Racine County Rock County Sawyer County Vilas County.	1	2
Total	1 19 1 1	14	······································	Regine County. Racine County. Rock County. Sawyer County Vilas County. Waukesha County.	1 i	1
Total Total nont: Addison County Chittenden County Grand Isle County. Ruthand County Windsor County Total	1 19 1	14		Recine County Racine County Rock County Sawyer County Vilas County Waukesha County Waupaca County	1 1	1
Total nont: Addison County Chittenden County Grand Isle County Rutland County Windsor County Total	1 19 1 1 1	14	7	Recine County. Racine County. Rock County. Sawyer County. Vilas County. Waukesha County. Waupaca County. Winnebago County.	1 1	1 2
Total	1 19 1 1 1	14	7	Recine County Racine County Rock County Sawyer County Vilas County Waukesha County Waupaca County	1 1	1 2 1
Total	1 19 1 1 1 22	14	7	Pepin County. Racine County. Rock County. Sawyer County Vilas County. Wankesha County. Wankesha County. Winnebago County. Wood County.	1 1	1 2
Total	1 19 1 1 1 22	14	7	Pepin County. Racine County. Rock County. Sawyer County Vilas County. Waukesha County. Waupaca County. Winnebago County. Wood County.	1 1 1	1 2 1
Total	1 19 1 1 1 22	14	7 1 1 2	Pepin County Racine County Rock County Sawyer County Vilas County Waukesha County Waupaca County Winnebago County Wood County Total. Wyoming:	1 1 1	1 2 1
Total	1 19 1 1 1 22	14	7	Pepin County Racine County Rock County Rock County Sawyer County Vilas County Waukesha County Waupaca County Winnebago County Wood County Total Wyoming: Carbon County Hot Surines County	1 1 1 1 1 67	1 2 1
Total	1 19 1 1 1 22	14	7	Pepin County Racine County Rock County Rock County Sawyer County Vilas County Waukesha County Waupaca County Winnebago County Wood County Total Wyoming: Carbon County Hot Surines County	1 1 1 1 1 67	31
Total	1 19 1 1 1 22	14	7	Pepin County Racine County Rock County Sawyer County Vilas County Waukesha County Waupaca County Winnebago County Wood County Total Wyoming: Carbon County	1 1 1 1 67	1 2 1

STATE REPORTS FOR JULY, AUGUST, AND SEPTEMBER, 1923—Continued. SMALLPOX—VACCINATION HISTORIES.

			Vac	ecination h	istory of c	ases.
State.	New cases reported.	Deaths.	Vaccinated within 7 years preceding attack.	Last vac- cinated more than 7 years preced- ing at- tack.	Never success- fully vacci- nated.	History not ob- tained or un- certain.
California District of Columbia	292 22		4	15	270 22	1
FloridaIllinois	8 72		1 5	1	17	45
Kansas	8				26 8	27
Massachusetts Minnesota	157		2	9	108	38
Montana	64		1	4	44	18
New York	88			1	76	1

TYPHOID FEVER.

	New	cases rep	ported.		New	cases rep	orted.
Place.	July.	August.	Sep- tember.	Place.	July.	August,	Sep- tember
Alabema:				Alabama—Continued.			
Autauga County			1	Madison County	8	27	
Baldwin County	2	2	2	Marcngo County		6	
Barbour County	9	5	3	Marion County		5	
Baldwin County Barbour County Bibb C unty	1	1	2	Marshall County		12	
Blount County		2		Mobile County		15	
Bullock County			6	Monroe County		6	
Butler County		12	2	Montgomery County.		15	
Calhoun County	5	10	16	Morgan County		13	
Chambana Country			*******	Perry County		12	
Chorokoe County	5	3	1	Pickens County	8	3	
Cherokee County Chilton County	2	4	2	Pike County	6	14	
Chectaw County		2	ī	Randolph County		7	1
Clarke County	3	2 5	7	Russell County		i	,
Clay County	3			Shelby County	5	5	
C'eburne County		2	******	St. Clair County	4	9	
		2	*******			1	
Coffee County	4	3	******	Sumter County		3	
Colbe t County	3			Talladega County	10	15	
Conecuh County	1 0		******	Tallapoosa County	10	15	1
Coosa County	3			Tusca'oosa County		9	
Co. ington County	13	16	1	Walker County	5	n	
Crenshaw County	7	6 3	2 4	Washington County	1 2		
Cullman County	12		6	Wilcox County		1	
Dale County	2	4	6	Winston County	4	2	
Dallas County	2	9	4	FF-4-1	050	500	Oc
Dekalb County	20	23	7 5 5 1	Total	352	500	26
Elmore County	8	27	9	A			
Escambia County	8	2	1	Arizona:			
Etowah County	16	6	8	Apache County		1	
Fayette County	3	1	1	Cochise County			
Franklin County	2	10		Cochise County Coconino County Gila County	1		
Geneva County	1	4	2	Gila County		2	
Greene County			1	Graham County	******		
Hale County			4	Maricopa County	3	1	
Henry County		1	1	Pima County		2	
Houston County	7	8	6	Yavapai County			
Jackson County	8	11	2	Yuma County	2		
Jefferson County	45		56		-	-	
Lamar County	4		3	Total	6	6	1
Lauderdale County	8	5					
Lawrence County	3	3	6	Arkansas:			
Lee County		12	3	Arkansas County	6		
Limestone County	17	12	4	Ashley County	3	2	
Lowndes County	3	6	6	Baxter County	1	2 1 4	
Macon County	5	3	3	Benton County		4	

TYPHOID FEVER-Continued.

	New	cases re	ported.		New	cases rep	ported.
Place.	July.	August	Sep- tember.	Place.	July.	August	Sep- tember
Arkansas—Continued.				California—Confinued.	-		
Calhoun County	5	1	2	San Benito County		1	
Carroll County	5	4	11	San Bernardino			
Clark County	2	******		County	1	10	1
Clay County Cleveland County	2 2 1	3		San Diego County San Francisco County	3	4 7	1
Columbia County		4	2	San Joaquin County.	6	10	
Conway County	1	3	3	San Mateo County	0	2	
Conway County Craighead County	2	17	2	Santa Clara County.	1	2 2	******
Crawford County	6	4	1	Santa Clara County Santa Cruz County		2	
Cross County	1	******		Shasta County			
Drew County	1	2	1	Siskivon County	1	1	
Faulkner County Franklin County	5	- 8	11	Solano County	1	1	
Garland County	4	1	1 4	Sonoma County	2	2	
Grant County		3		Stanislaus County		3	
Greene County		1	2	Sutter County Tehama County	1		
Hempstead County	2			Tenama County Trinity County Tulare County Ventura County Yuba County		1	
Hot Spring County		5		Tulare County		1	
Howard County	5	6		Ventura County		2	
Independence County	11	2	7	Yuba County		1	
Izard County		4	1	YOR COURTY			
Jenerson County	******	2	1	Place not stated	12	10	1:
Lawrence County	2 2	******	5	Matal .	70	120	-
Logan County	2	2	******	Total	72	152	90
Lonoke County	-	-	·····i	Colorado:			
Lonoke County Madison County	2	2	6	Adams County	1	3	
Miller County			10	Adams County		1	
Monroe County	2	1					******
Montgomery County.		1		Bent County			
Nevada County Ouchita County			13	Boulder County		3	2
Ouchita County		4	1	Chaffee County			
	5		******	Bent County Boulder County Chaffee County Denver County	8	19	26
Pike County Pulaski County	29	1 17	***************************************		2 4	1 2	
Randolph County	29	17		El Paso County Fremont County		3	
St. Francis County	1	1	*******	Garfield County	2	3	9
Salina County	7	i		Huerfano County			15
Scott County			9	Kit Carson County	2		
	27	13	6	Lake County	2		
Sharp County	8	8	17	Larimer County	1	2	2
Sharp County Union County Van Buren County	5	1	2	Las Animas County	3	3	5
Van Buren County	6	3	8	Logan County	2	2	
Washington County White County	2	20 7	3	Mesa County Montezuma County	4	1	2
Woodruff County	-	i	0	Montrose County	*		6
Yell County	3				1	16	10
		*******		Prowers County		1	
Total	169	162	138	Pueblo County	9	1	1
				Rio Grande County			1
California:				Weld County	1	6	7
Alameda County	1	6	4	l la	40	en.	100
Butte County Colusa County Contra Costa County. Eldorado County.	1			Total	42	67	103
Contra Costa County	1 2	10		Connecticut:			
Eldorado County	1			Fairfield County	7	14	9
Fresno County	3	8	9	Hartford County	2	11	. 9
Fresno County	1			New Haven County-	-	**	
Imperial County	6 !	4		New Haven County— New Haven	8	15	28
Kings County			1	Scattering	9	9	2
Lake County	1			New London County.	2	6	5 2 4
Lassen County		1		Tolland County			2
Lake CountyLassen CountyLos Angeles County—			-	Windham County	2	1	4
Los Angeles	0	15	7	Tr. (a)	00	80	20
Scattering	14	37	16	Total	30	56	59
Madera County Mariposa County		4		Delaware:			
Merced County		4	1	Kent County		14	7
Monterey County			3	New Castle County	4	7	8
Napa County		1		Sussex County		3	2
Nevada County		i		-	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Mariposa County. Merced County. Monterey County. Napa County. Nevada County. Orange County. Placer County. Riverside County.		*******	. 3	Total	4	24	17
Placer County	******	1 1	1	=	-		
			2 3	District of Columbia	12	20	20

TYPHOID FEVER—Continued.

	New	cases rep	ported.		New	cases rep	ori
Place.	July.	August.	Sep- tember.	Place.	July.	August.	te
Florida:				Illinois—Continued.			-
Alachua County			1	Boone County	1		
Roker County		1		Bureau County	1	1	1
Alachua County Baker County Bay County	******	î		Cass County			i
Bay County Bradford County Broward County Calhoun County Clay County Columbia County Dade County Divie County Deval County Escambia County Gadsden Hamilton County		i		Champaign County	1	7	l
Broward County	1			Christian County		4	ŀ
Calhoun County		3	·····i	Clark County		1	1
Clay County		1		Clay County	2	2	1
Calumbia County		î		Clinton County		1	1
Dade County	2			Cook County	4	5	
Dixie County		1		Cook County	18	29	i
Duval County	7	5	5	('rawford County		1	
Escambia County	7	1	4	Cumberland County. De Kalb County		1	
Gadsden	2	1	1	De Kalb County		1	
Hamilton County	-	-	1			2	
WELLS 1 0 .			1	Du Page County	1	2	1
Jackson County		1	2	Edwards County	1		
Jefferson County	1	î	1	Du Page County Edwards County Fayette County Ford County	1		
Lafavette County		2	1	Ford County.			Ī
Lake County		2	*******	Franklin County	5	6	
Hillsborough County Jackson County Jefferson County Lafayette County Lake County Leo County Leon County Levy County Madison County Manatee County Marion County Oka.oosa County		1		Fulton County	2	3	
Lee County			*********				0.00
Leon County		2		Crundy County			
Levy County		2	********	Hamilton County		1	
Madison County		3	1	Hancock County		4	1
Manatee County	1	6	1	Hancock County			
Marion County		7	5	Transpir County		5	1
Oka.oosa County Orange County Osceola County		1	1	Gallatin County. Grundy County. Hamilton County. Hancock County. Henry County. Iroquois County. Jacks on County. Jasper County. Jeffer-on County.		2 4	
Orange County	1	5	******	Jackson County		4	
Osceola County		1	******	Jasper County		3 6	
Palm Beach County Pasco County	1	1	******	Jeffer on County Jersey County Johnson County			1
Pasco County	2	1	2	Jersey County	1		
Pinellas County		1	2	Johnson County	1	3	
Polk County	1	3	1	Kane County	- 4		
St. Johns County		1	1	Kankakee County	1	2	
Pinellas County Polk County St. Johns County Santa Rosa County Sominale County	1	1		Kendall County			
			2	Knox CountyLake County	1	5	
SHWannee Collety		1		Lake County	1	2	
Union County	1	1	1	La Same Committee		1	
Vouisia County	2	2	1	Lee County Livingston County		1	
Wakulla County Walton County		1		Lee County	1		
Walton County		1		Livingston County			
				Logan County			
Total	31	64	36	McLean County Macon County		1	
	-			McLean County	1	1	
Iawaii:				Macon County	2	7	
Hawaii	7	16	11	Macoupin County			
Hawaii Kanai Maui	4			Macoupin County Madison County Marion County Marshall County Massac County	4	5	
Maui	i	1	2	Marion County	3	1	
Oahu	5	5	2	Marshall County		2	
J. 100.000.000.000.000.000.000.000.000.00				Massac County	2		
Total	17	22	15			2	
* **************				Mercer County	2		
daho:				Monroe County	2	2	
		3		Manhaum our Country	*	6	
Ronneville County		3	6	Morgan County	1	6	
Bannock County Boineville County Boise County Boise County Boundary County Conyon County Caribou County Elmore County Fremont County Jefferson County Jerome County Lembi County Lembi County Madison County Madison County		1		Morgan County Ogle County Peoria County		1	
Boundary County		1	******	Peoria County	2	19	2000
Butto Counity		2		Perry County Perry County Pike County	-		
Convon County		-	11	Pike County		2	
Caribon County		1	A.E.			ī	
Elmoro County		1	1	Randolph County Richland County Rock Island County St. Clair County Saline County		8	
Framont Country			1	Richland County	1	1	
Lafforson County				Rock Island County	4	4	
Jenerson County		1	1	St Clair County	9	5	
Jerome County		2	2	Selino County	3	2	
Kootenai County			2	Saline County	1	2	
Lembi County		1		Sangamon County Schuyler County	1	1	
Madison County		6		Schuyler County	1		
Madison County Nez Perce County Power County		3		Shelby County Stephenson County Tazewell County	1	1	
Power County		7		Stephenson County		2	
				Tazewell County	3	2	
Total		28	22	Union County Vermilion County Wabash County	1	4	
				Vermilion County	******	7	
llinois:				Wabash County		2	
Adamia Country		2	5	Warren County Wayne County White County		1	
Admin's County Conserved							
Adams County Alexander County Bond County		2	3	Wayne County		1	

TYPHOID FEVER-Continued.

	New	cases rej	ported.		New	cases re
Place.	July.	August	fep- tember.	Place.	July.	August
Illinois—Continued.				Jowa—Continued. Jefferson County Jones County Lee County Mills County Montgomery County. Plymouth County. Pok County. Scott County Tama County Wapello County Woodbury County		
Whiteside County	1			Jefferson County		. 1
Will County	1	10	16	Jones County		. 1
Williamson County	11	13	9	Lee County	1	3
Winnebago County	1		2	Mills County		
Total	99	233	320	Montgomery County.		
10tal	00	233	320	Polk County		1
diana:			1	Scott County	2	******
Allen County	1	2	24	Tama County	1	
Bartholomew County.	1	1		Wapello County		
Cass County	1	1	1	Woodbury County		6
Clinton County	2	3	2		-	-
Daviors County	1	*******	9	Total	8	25
Decatur County	******	9	3			
Dekalb County		2	1	Kansas:		
Delaware County	2		1	Anderson County	********	8
Dubois County			1	Atchison County	1	2
Floyd County	******	3		Parber County		3
Fountain County		1		Barton County		1
Hancock County	******		4	Bourbon County	*******	4
Harrison County	1		2	Kansas: Allen County Anderson County Atchison County Barber County Barton County Brown County Brown County Brown County Butler County Chautauqua County	1	5
Hendricks County	1			Butler County	2	4
Howard County	î		2	Chautauqua County		1
Huntington County			1	Cherokee County	1	2
Jackson County	2	2	1	Clork County	1	1
Jennings County		3	2	Clay County		
Johnson County		1		Cloud County		******
Kosciusko County	1		1	Coffee County	2	1
Lake County	9	9	13	Comanche County		1
Laporte County	-	1	10	Cowley County	11	4
diana: Allen County Bartholomew County. Cass County. Clay County Clay County Clinton County Daviess County Decatur County Debaware County Debaware County Delaware County Floyd County. Floyd County Fountain County Hancock County Harrison County Hendricks County Hendricks County Howard County Howard County Huntington County Jennings County Jennings County Jennings County Lake County Kosciusko County Kosciusko County Kosciusko County Huntington County Howard County Homer County Homer County Harrison County Harrison County Hobel County Hobel County Harrison County Hobel County Fike County Fike County Fike County Fike County Steuben County Steuben County Steuben County Tippecanoe County Vanderburgh County Vanderburgh County Wayne County Wells County Wells County Wells County White County White County Wells County Wells County Wells County White County Wells County Wells County Total		i	4	Bourbon County Brown County Butler County Chautauqua County Chevenne County Cheyenne County Clay County Clay County Cloud County Comanche County Comanche County Combey County Cowley County Crawford County Diel Inson County Herington Seattering Douglas County Ellis County Ellis County Finney County Ford County Ford County Ford County Harvey County Harvey County Harvey County Harvey County Holgeman County Jefferson County Kearny County Kearny County Kearny County Labette County Labette County Labette County Labette County Leavenworth County Linn County Linn County Linn County Lyon County Lyon County Lyon County Lyon County Lyon County Marshall County Marshall County Marshall County Marshall County Meade County Meade County Meade County Miami County Montgomery County	4	. 8
Madison County	3		3	Decatur County		3
Marion County	- 4	7	13	Dickinson County—		10
Martin County			2	Herington	******	19
Monroe County	*****	3		Douglas County	******	3
Newton County	******	1		Elk County		1
Owen County		*******	9	Ellis County	2	
Parke County		******	î	Ellsworth County	1	2
Perry County		*******	2	Finney County	1	12
Fike County			3	Ford County		
Posey County			2	Franklin County		1
Randolph County	******		1	Greenwood County		2
St. Levenh County	1	*******	3	Harner County	3	9
Stephen County	3	4	1	Harvey County	0	1
Sullivan County	******	3		Hodgeman County		- i
Tippecanoe County		1		Jefferson County		1
Tipton County			-1	Jewell County	3	
Union County	7	6	5	Johnson County		2
Vanderburgh County		2	6	Kingman County	1	*******
Wayne County		4	9	Kiowa County	1	1
Wells County	******	9	2	Labette County	2	6
White County:		******	1	Leavenworth County	2	1
_				Lincoln County		3
Total	35	60	137	Linn County		4
1=				Lyon County	1	2
ra:1				Marion County	4	4
Adair County		1		Marshall County		1
Boone County.	1			Miami County		2
Buchanan County		*******		Montgomery County	******	-
Cerro Gordo County		******	4	Coffevuille	12	7
Ma: I Adair County Black Hawk County Boone County Buchanan County Cerro Gordo County Clay County Clinton County Crawford County Fayette County Humboldt County Ida County			1	Marshall County Meade County Miami County Montgomery County Coffeyville Seattering Morris County	6	10
Clinton County.	1	1		Morris County Nemaha County		5
Crawford County	1			Nemaha County Neosho County Ness County Osage County	2	1 .
	-	10	3	Neosho County	1	
Fayette County	******	100	- 11		2	

¹ Typhoid fever is not required by law to be reported in Iowa.

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TYPHOID FEVER-Continued.

	New	cases rej	ported.		New	cases rep
Place.	July.	August.	Sep- tember.	Place.	July.	August
ansas-Continued.				Louisiana—Continued.		
Osborne County	2	1		Webster Parish	2	6
Pottawatomie				West Baton Rouge		
County		1	******	Parish		. 1
Pratt County	3	4 6		Total	102	127
Rice County	1	4	1	A Otal	102	121
Riley County	î		3	Maine:		
Riley County		1		Androscoggin County		
		3	1	Aroostook County	2	9
Saline County		1		Cumberland County .	4	5
Saline County	11	8	7	Hancock County	3	2
Smith County	1	4	4	Kennebec County Knox County		******
STRUCK COURTY		5	6	Lincoln County Penobscot County		******
Summer County	4	12	4	Penobscot County	1	3
Thomas County		2				1
Wabaunsee County	1	1		Sagadahoc County		1
Washington County.		1		Somerset County	1	
Wilson County Woodson County	********	4 2	10	Washington County York County	*******	1
Wyan dotte County	2	7	10	1 or a County	1	2000000
Total		226	146	Total	14	22
201111111111111111111111111111111111111				Maryland: Allegany County	2	10
uisiana:				Anne Arundel		12
Acadia Parish		7	6	County. Baltimore City	10	12
Allen Parish	2	1		Baltimore City	31	47
Ascension Parish	1			Baltimore County	5	13
Assumption Parish Avoyelles Parish	1		3	Calvert County		5
Bienville Parish			3	Caroline County	3	14
Bossier Parish			1	Cecil County—	. 1	1
Caddo Parish	20	7	11	North East	3	10
Calcasieu Parish	3		1	Scattering	3	1
Claiborne Parish	1		1	Charles County	1	5
De Soto Parish	8	2	3	Dorchester County	4	22
East Baton Rouge Parish	2			Frederick County	2	
East Carroll Parish	- 1	1	1	Garrett County Harford County	2	10
East Feliciana Parish			2	Howard County	-	1 6
Franklin Parish	1	2	-	Kent County	4	3
Iberia Parish	1	1	1	Montgomery County.	4	11
Iberville Parish	1	1	1	Montgomery County. Prince Georges		
Jackson Parish		4	4	County	7	14
Jefferson Parish Jefferson Davis Parish	1	3	1	Queen Annes County.	1	9
Lafavette Parish	5	2 4	******	St. Marys County Somerset County	6	23
La Fourche Parish.	1	1	2	Talbot County	3	3
La Fourche Parish La Salle Parish	î	5		Washington County	12	14
Lincoln Parish		2	3	Wicomico County	8	7
Madison Parish	19	1	1	Worcester County		14
Morehouse Parish Natchitoches Parish	1			State institutions		8
Orleans Parish	9	26	12	Total	114	275
Ouachita Parish	0	5	2	Total	114	2/5
Plaquemines Parish	3	1	2	Massachusetts:		
Pointe Coupee Parish	4	2		Barnstable County	1	
Danidou Parich	0	6	10	Berkshire County	1	1
Richland Parish Red River Parish Sabine Parish		3	2	Bristol County	5	6
abino Parich		2	1	Essex County Franklin County	13	13
t. Charles Parish		1	5	Hampden County	2 2	1 6
t. Helena Parish		1	9	Hampshire County	1	0
st. Charles Parish st. Helena Parish st. Landry Parish	1	4	-	Middlesex County	8	8
a. Martin Parish	2.1			Nantucket-County	3	
St. Mary Parish St. Tammany Parish.	2	1 .		Norfolk County	1	1
St. Tammany Parish.		1 .		Plymouth County	1	3
Tangipahoa Parish Tensas Parish	2 .	2		Suffolk County—	99	10
Perrebonne Parish	1	8	1	Boston	11	15
Terrebonne Parish Union Parish	******	î .	*	Worcester County	7	10
	1	3	1		-	-
Vermilion Parish Vernon Parish Washington Parish	1.1	43 1		Total	58	

TYPHOID FEVER—Continued.

	New	cases rej	ported.		New	cases rep	orted.
Place.		1	Sep- tember.		1		
Michigan: Alcona County. Allegan County. Allegan County. Appena County. Antrim County. Baraga County. Baraga County. Benzie County. Calhoun County. Calhoun County. Casc County. Cheboygan County. Clinton County. Eaton County. Genesee County. Gogebic County. Grand Traverse County. Hillsdale County. Hillsdale County. Houghton County. Huron County. Ingham County. Ingham County. Isabella County. Isabella County. Kalkaska County. Kalkaska County. Kalkaska County. Kent County. Kent County. Kent County. Lapeer County. Lenawee County.				Minnesota—Continued. Clay County Cottonwood County. Cotwowood County. Fillmore County Goodhue County. Hennepin County. Hennepin County. Kittson County. Kocchiching County. Lyon County. Lyon County. Marshall County. Marshall County Morrison County Mower County. Norman County Polk County. Polk County. Ramsey County. Red Lake County. Red Lake County. Red Lounty. Rock County. Red County. Red County. Red Lounty. Red County. Stevens County.			
Alcona County		1		Clay County		1	
Allegan County			1	Cottonwood County		1	
Alpena County	2			Crow Wing County	1	3	
Antrim County	3	******	1	Fillmore County			1
Baraga County	*******		20	Honnopin County		1	
Bay County	4	3	15	Hennepin County		8	
Benelo County	3		1	Vitteen County	******	2	****
Calbour County			******	Kittson County	*******	******	
Case County	0		*******	Le Sueur County	1	******	
Chehovgan County	1		1	Lyon County			
Clinton County	1			McLend County		1	1
Dolta County			1	Marshall County		1	
Faton County	1	1	î	Mille Lacs County	1	1	
Genesee County	3	î	11	Morrison County	i		
Gozebic County			î	Mower County			
Grand Traverse				Nicollet County			
County			2	Norman County		1	
Gratiot County.	1	1	6	Olmsted County			
Hillsdale County		1	2	Pine County			
Houghton County	2		4	Polk County			
Huron County	1			Ramsey County	8	7	
Ingham County	2	2	5	Red Lake County	1		
Ionia County		1	1	Red Wood County	4	1	
Ioseo County	******		1	Rice County			
Iron County			1	Rock County			
Isabella County	******	1		Roseau County		1	
Jackson County	2	3	2	St. Louis County	1	2	
Kalamazoo County		4	2	Stearns County	1		
Kalkaska County		3	3	Steele County		1	
Kent County	1	18	8	Stevens County	1	1	
Lake County	******	3		Swift County		1	
Lapeer County		4	1 3	Todd County	******		
Lenawee County		9	3	wabasha County		1	
Lavingston County		2	*******	Washington County		2	
Magoria County			9	St James		14	
Manistee County		- 0	2	Scattoring	9	1.9	
Marquette County			2	Winona County	1		
Mason County	*******	*******	2	Wright County		0	
Midland County			4	Yellow Medicine			
Mecosta County	2	3		County		1	
Menominee County		1		Swift County Todd County Wabasha County Washington County Watonwan County St. James Scattering Winona County Wright County Yellow Medicine County			
Montealm County		2	1	Total	31	65	
Muskegon County		6	4				
Oakland County	1	1	3				
Ottawa County			2	Mississippi:			
Saginaw County	7	6	9	Adams County	4	2 2	
St. Clair County	3		1	Alcorn County	1		
Lake County. Lapeer County Lenawee County Livingston County Livingston County Macomb County Manustee County Marquette County Mason County Midland County Mecosta County Menominee County Menominee County Muskegon County Oakland County St. Joseph County St. Joseph County St. Joseph County St. Soeph County Schoolcraft County Schoolcraft County Schoolcraft County	1	1	******	Mississippl: Adams County. Alcorn County. Amite County. Attala County. Benton County Calhoun County Calhoun County Chickasaw County Choctaw County Claiborne County Clare County. Clare County.	4	10	
Sanilac County		1	3	Attala County	3	14	
Schoolcraft County Shiawassee County Tuscola County			1	Benton County		1	
Shiawassee County Tuscola County Van Buret County Washtenaw County Wayne County Wexford County		3	1	Bolivar County	36	24	
Tuscola County		1	1	Calhoun County	1	1 2	
Van Burea County	1	1		Chickasaw County	3	1	
Washtenaw County	1	*******	2	Choctaw County	2	2 1 5	
Wayne County	21	16	25	Clarke County	4	1	
Wexing Country		******	*******	Clar County	6	0	
Total		106	160	Coohoma County	8	1 8	
			-	Copiah County	12		
nnesota:				Covington County	5 14 1	3	
Aitkin County	2			De Soto County	14	13	
Anoka County		2	1	Forrest County	1	1	
Becker County		3	2	Franklin County	*	-	
Beltrami County	1			George County	3	1	••••
Benton County			2	Greene County	1		
Bigstone County	1			Grenada County	î	3 6	
Blue Earth County		2	3	Harrison County	4	3	
Brown County	1			Hinds County	5	6	
Carlton County		1		Holmes County	5 3	1	
Cass County		2		Claiborne County Clarke County Clarke County Coahoma County Copiah County Copiah County De Soto County Forrest County Franklin County George County Greene County Harrison County Harrison County Humphreys County Humphreys County Jackson County	4		
				Itawamba County	1		
innesota: Aitkin County Anoka County Becker County Beltrami County Beltrami County Bigstone County Bigstone County Bigstone County Brown County Carlton County Cass County Chippewa County Chipago County			1	Acta transitions Country of	8 1		

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 TYPHOID FEVER-Continued.

	New	cases rej	ported.		New	cases rep	orted.
Place.	July.	August.	Sep- tember.	Placo.	July.	August.	Sep- tember
dississinni—Continued				Montana—Continued.			
lississippi—Continued. Jasper County	1	2	4	Toole County		1	
Jefferson County	1	2	1	Valley County		1	
Jefferson County Jefferson Davis				Wheatland County	2		
County	8	5	5	Yellowstone County			
Jones County	1	6	1	m. e. i	10		-
Kemper County Lafayette County	1	3	5	Total	19	15	3
Lauderdale County	3 4	3	5	Nebraska	21	6	
Lawrence County	1	5	6	ACDIGSKO		0	
Leake County	4	2	3	New Jersey:			
Lee County	12	1	12	Atiantic County	3	4	
Lenore County	12	9	8	Bergen County	3	11	
Lincoln County	17	9 7 5 4	2	Burdington County	3	6	
Lowndes County	4 7	5	4	Camden County Cape May County	3	5	1
Madison County	7	4		Cape May County	2	1	
Marion County Marshall County	3 2	3 4	2	Cumberland County. Essex County	8	2 14	1
Monroe County	9	3	4	Gloucester County	1	2	
Monroe County Montgomery County.	8	4	7	Gloucester County Hudson County	3	10	
		4	7	Hunterdon County.			
Newton County Noxubee County	3	5	4	Mercer County	4	10	1
Noxubee County	1	5 4	2	Middlesex County	2	12	1
	1	4	4	Monmonth County	*3	4	1
Panola County Pearl River County	7 2	5		Morris County Passaic County	4	1	
Pearl River County	1	5 1	1	Passaic County	4	2	
Perry County Pike County Pontotoc County Prentiss County	14	6	1	Salem County Somerset County	4	2	
Pontotoe County	3	4	2	Sussey County	1	-	
Prentise County	4	4 4	15	Sussex County Union County	6	9	
Quitman County	4	3	1	Warren County		1	
Rankin County	1	3 5	3				
Scott County	4	3	3	Totai	53	96	10
			6				
Simpson County Sunflower County Tallahatchie County Tate County	2	5	4 5 2 5 1 5 2 5 2 2 6	New Mexico:			
Sunflower County	5	12 8	5	Bernalillo County Chaves County	3	2	1
Tallanatchie County	5	4	2	Colfax County		2	
Tippeh County	6	2	0	Chaves County	4		
Tippah County Tishimingo County Tunica County	3	- 10	5	Dona Ana County		7	1
Tunica County	3	10	9	Eddy County	3	9	
Union County.	3	6	5	Guadalupe County		2	
Walthall County Warren County	3	5	2	Lineoln County	1	2	
Warren County	2	2	2	Luna County	A 1	1	******
	13	11		McKinley County Mora County		1	******
Wayne County Webster County Wilkinson County Winston County	1	2	2	Mora County		12	
. Webster County	6	3	2	Otero County		2	
Wington County		5	2	Quay County Rio Arriba County	******	-	
Winston County Yalobusha County		2	2	Roosevelt County Sandoval County	1	1	
Yazoo County	3	2	ĩ	Sandoval County		2	
2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				Sandoval County San Juan County San Miguel County Santa Fe County	11	5	
Total	327	320	241	San Miguel County	1	1	1
				Santa Fe County		1	10
ontana:				Taos County	26		4
Big Horn County Blaine County		1	*******	Union County	1	4	
Blaine County Cascade County	2	******	3	Valencia County	1	4	4
Dayron County	2	3		Total	31	60	73
Dawson County Fergus County	9	1	2	40104		0.7	
Flathead County	-		2 3 2 1	New York:	1		
Garfield County		1	ĩ	Albany County	11	6	1
Flathead County Garfield County Glacer County			1	Allegany County Broome County	4	2	- 1
Hill County			2	Broome County	1	2	1
Lewis and Clark				Cattarangus County!		1	1
Hill County. Lewis and Clark County.	1			Cavuga County Chautauqua County—	1		- 1
Lincoln County	7	3	5	Chautauqua County—	15	10	1
Madican County	*******	3	2	Jamestown Scattering Chemung County—	3	6	2
Mannhar County	2	*******	1	Cheming County	0	9	4
Missoula County	******		1	Elmira		32	
Musselshell County		1	1	Scattering	1		3
There Court Coulty		1	2	Chenango County		4	3
Park County							
County. Lincoln County. McCone County. Madison County. Meagher County. Missoula County Musselshell County. Park County. Roosevelt County. Siver Bow County. Stillwater County.		2	1 1	Clinton County Columbia County Cortland County	1 1	7	2

TYPHOID FEVER--Continued.

	New	cases rej	ported.		New	cases rep	ported.
Place.	July.	August	Sep- tember.	Place.	July.	August.	Sep- tember
New York-Continued.				North Carolina—Cont.			
Delaware County Dutchess County		1	2	Davidson County	13	5	
Dutchess County	1	5	1	Davie County Duplin County Durham County	3 2	1	
		111	1.0	Duplin County	2		1
Buffalo Scattering	8	11	15 10	Edgesombs County	3 2	1 5	
Essex County	2	l î	2	Edgecombe County	6	20	
Franklin County			ī	Frankiin County	1	4	
Scattering Essex County Franklin County Fulton County Greene County Hamilton County Herkimer County Lefferson County		2	1	Gaston County	16	16	******
Greene County	1	4	2			1	
Hamilton County		1	11	Granville County	8	2	
Herkimer County	1	2	11	Greene County Guilford County	2	*******	
Jefferson County Lewis County Livingston County Madison County Monroe County		1	8	Halifay County	74 19	39	1
Livingston County			i	Halifax County Harnett County Haywood County	3	9	
Madison County			3	Haywood County	3	2 2	
Monroe County-						4	1
Rochester	1	6	17	Hoke County	1		1
Scattering	1	1	4	Iredell County	1	3	
Monroe County— Rochester Scattering Montgomery County. New York City Niewara County		4	4	Hoke County Iredell County Jackson County Johnston County	12	3	
Nassan County	2	100	4	Johnston County	26		
Niagara County	1	180	205	Longie County	1 3	1	******
Oneida County	2	4	3	Lincoln County	3	5	******
Onondaga County	10	3	6	McDowell County		ĭ	
	1		1	Jones County Lenoir County Lincoln County McDowell County Macon County Macon County			
Orange County	2	5				1	
Orleans County	3	3	1	Marin Cointy	6	4	
Otsego County	3	2	1	Mecklenburg County. Mitchell County	25	12	1
Rensselaer County	9	9	13	Mitchell County		2	
St. Lawrence County.	2	7	2 4	Montgomery County.	3	1	******
Saratoga County	2	4		Nesh County	10	8	
Schenectady County.	2	3	i	New Hanover County	2	4	
Schenectady County. Schoharie County	2	i i		Moore County Nesh County New Hanover County Northampton County	3	2	
Schuyler County Steuben County	2		1	Onsiow County		2	
Steuben County	2	2	7	Orange County	7	3 7	
Suffolk County—		-	2.4	Pasquotank County	7	7	
Islip Scattering	9	2	14	Pender County	2	2	
Sulliven County	0	5	3	Perquimans County	5	2	
Sullivan County Tioga County Tompkins County	1	4		Person County Pitt County Polk County	10	10	
Tompkins County	3	4 2 6	2	Polk County	2		
		6	3	Randolph County Richmond County	3 2	12	
Warren County Washington County	. 3	2	1	Richmond County	2	3	
Wayne County	1	3	1	Robeson County	12	5	
Westchester County	12	17	7	Roekingham County. Rowan County	8	8 6	
Yates County	1	1				5	*****
				Stanly County		3	
Total	181	353	409	Stanly County Stokes County Surry County Swain County	1	3	******
				Surry County	2	3	*******
orth Carolina:				Transylvania County	4	3	
Alamance County	6	4 5	6	Union County		3	
Alexander County Anson County Ashe County	1	i	******	Vance County	1	i	
Ashe County	4		4	Wake County	12	23	
Ashe County Avery County Beaufort County Bertie County Bladen County Buncombe County Burke County Cabarrus County Caldwell County Carteret County Carteret County			2	Wake County Warren County		3	
Beaufort County	3	3	4 3			1	******
Bertie County	13	5		Watauga County Wayne County		1	
Bladen County	3	1	2 11	Wayne County	13	4	
Burke County	9	10	2.5	Wison County	9 5	3 4	*******
Cabarrus County	14	3		Wilkes County Wilson County Yadkin County Yancey County	6	5	-
Caldwell County	2	5		Yancey County	1	5	
Carteret County			1				
Caswell County	2		1	Total	461	342	200
Catawba County	3	3	4				
Chatham County	1	1	1	North Dakota:		0	
Cherokee County	1	1	******	Burleigh County		2 5	3
NAMES OF TAXABLE PARTY	1	1	******	Cass County	1	1	1
Clay County							
Cleveland County	10	E 1	4	Dickey County			1
Clay County	10	E 1	4	Barnes County. Burleigh County Cass County. Dickey County. Eddy County. Griggs County. La Moure County			7 2 4 1

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TYPHOID FEVER-Continued.

	New	cases rep	orted.		New	cases rej
Place.	July.	August.	Sep- tember.	Place.	July.	August
orth Dakota Cont.				Ohio-Continued.		
Morton County Pembina County Pierce County Ramsey County Richland County Stark County Stutsman County		3	2			. 1
Pembina County			5	Proble County		1 1
Pierce County		3	1	Putnam County	3	1
Ramsov County		1		Preble County Putnam County Richland County Ross County	i	
Richland County	9		2	Poss County	6	2 7
Stark County	-	2	-	Sanducky County	0	
Stutemen County		-	2	Scioto County	1 5	18
Walsh County		1		Sances County	3	18
Walsh County Williams County		î		Shelby County	1	4
winianis County				Stork Country		1 4
Total	3	19	31	Summit County	13	1 40
- Utili	- 0	10	01	Richland County. Ross County. Sandusky County. Scioto County. Seneca County. Shelby County. Stark County. Summit County. Trumbull County. Truscarawas County.	11	10
0:				Tuenarowas County	5	2 5
Adams County	3	1	1	Tuscarawas County	9	3
Allen County	11	i	2	Union County	******	1
Allen County	1		2 2	Vinton County		1
		3	2	Warren County		5
Athens County Athens County Auglaize County Belmont County Brown County Butler County Carroll County Champain County	1	34	16	Washington County		7
Auglaize County		9	9	Wayne County		3
Belmont County	9	2	2 12	Williame County	2	3
Brown County	6	9	9	Wood County	9	2
Butler County	3	2 3	4	Wrondet Countr		1
Carroll County	3	1	1	Washington County Wayne County Williams County Wood County Wyandot County	1	
Champaign County	9	- 1	1 2	Total	223	315
Clark County	9	7	3	1.0901	220	919
Champaign County Clark County Clermont County		4	3 3 3 11	Oklahoma:		
linton County		i	3	Atoka County		
linton County olumbiana County	6		11	Atoka County	0	5
ashoeton tanniv		1	5	Bryan County	4	0
rawford County.		3	5 2	Caddo County	1	3
uvahoza County.	42	20	20	Cherokee County		3
rawford County uyahoza County Parke County		2	11	Choctaw County	1	6
efiance County		2	1	Coal County	9	1
Darke County Defiance County Trie County Darrield County Tayette County Tranklin County Tulton County Dallia County Treene County Treene County Tuernsey County	******		î	Cherokee County Choctaw County Coal County Comanche County Custer County Ellis County Garfield County Garvin County Grady County Grant County Harmon County	0	1
airfield County		····i	1	Custer County	2	7
avette County	3	i	4	Ellis County	9	1
ranklin County	0	8	14	Garfield County		1
ulton County	2	7	4	Garvin County		4
allia County	-	i	5	Grady County		5
reene County uernsey County amilton County	4	il	1	Grant County		9
uernsey County.	2	5	6	Harmon County	1	
amilton County	8 1	21	8	Haskell County	1	9
MIRCORK COURTEVALLE			1	Grant County Harmon County Haskell County Jackson County Kingfisher County I nesh County I ogan County Mayes County Mayer County Noble County Noble County Oklahoma County	9	2 1
lardin County	1	1	5	Kingfisher County	9	2
	1	2		Lincoln County	4	
Henry County Highland County Hocking County Holmes County Lackson County		2 2	7	Lozan County		8
Highland County	2	4	6	Mayes County	17	44
locking County	2	1	3	Major County	2.0	44
olmes County	2		1	Noble County	4	
ackson County	9	1	i	Oklahama County	3	1
efferson County	2	4 .		Pittsburg County		3
	1 1		2			17
ake County awrence County icking County ogan County orain County	2		1	Rogers County Seminole County Stephens County	3	2
awrence County	17	8	8	Seminole County	3	
icking County	5	3	8 5	Stephens County	1	
ogan County		1	4	Tullman County	6	10
orain County	1	2	5	Tulsa County	29	20
icas County	8	16	14	Tulsa County Wagoner County		9
dison County		5	14 2	Washington County		34
		5 7	8	Woods County	6	3
rion County	1	2	8 2	Woodward County	1	5
dina County	1	2			-	3
igs County	2	î l		Total	121	164
reer County	-	1	3	A. Utilita	421	103
ami County		6	4	Oregon:		
shoning County			3	Benton County		
ontgomery County	13	7	10	Clackamas County		
organ County	1	3	1	Coos County		6
errow County		0	9	Crook County		13
iskingum County	9	12	2 7 5	Deschutes County		
ble County	-	12	7	Donelas County		1
tawa County		6	2	Hood River County	*******	1
ontgomery County organ County organ County uskingum County oble County ttawa County	1 .	0	2	Oregon: Benton County. Clackamas County. Coos County. Crook County. Deschutes County. Douglas County. Hood River County. Lane County. Linn County. Marion County.		4
erry County ekaway County	A .	1 .	2	Linn County		4

TYPHOID FEVER-Continued.

	New	cases rep	orted.		New	cases rep	arted.
Place.	July.	August.	Septem- ber.	Place.	July.	August.	Fep- tember.
Oregon—Continued.				Rhode Island:			
Multnomah County	1	4	9	Bristol County	2	3	
Umatilla County	9	i	1	Providence County	5	6	
Union County		1	4	Washington County		1	
Union County Wallowa County	1			m-t-1	7	10	
Wasco County		3	2	Total	-	10	
Total	5	23	34	South Carolina: Abbeville County		1	1
Pennsylvania:				Anderson County Charleston County Cherokee County		8	
Adams County	1	2	1	Charleston County		2	
Allegheny County Armstrong County	27	31	33	Chester County	4	2	
Armstrong County	2	2	2	Chesterfield County	2	1	1
Beaver County	2	3	13	Chesterfield County Darlington County	9		i
Bedford County	4 3	6 5	7	Edgefield County Greenville County Greenwood County	1	1	
Berks County	3	22	6	Greenville County	20		14
Blair County Bradford County			1	Greenwood County	6	3	
Bucks County		11	11	Lexington County	2	3	
Bradford County Bucks County Butler County	2	6	4	Mariboro County Oconee County	7	5	*******
Cambria County	1	12	23	Orangehurg County		2	
Contor County		4	2	Richland County	1	5	3
Chester County		9	8	Saluda County	3		
Clarion County Clearfield County		9	12	Spartanburg County.		4	
Cunton County			6				27
Columbia County		4	2	Total	40	00	
Columbia County Cumberland County . Dauphin County Delaware County Elk County	2 7	3	1	South Dakota:			
Dauphin County	7	8	5	Beadle County	1	1	1
Delaware County	2	12	17	Butte County		1	i
Elk County	2	6	3	Charles Mix County			- 1
Favette County	6	6	22	Davison County		1	
Fayette County Franklin County	16	3	7	South Dakota: Beadle County Butte County Charles Mix County Davison County Grant County Hamilin County Hand County Hanson County Hutchinson County Kingsbury County Lake County			i
			2	Hamin County	*****	1	
			2	Hand County			1
Huntingdon County.	5	2	8	Hanson County		1	
Huntingdon County. Indiana County Jefferson County		10	3	Hutchinson County		1	******
Jenerson County	6	2	1	Kingsbury County	1		
Juniata County Lackawanna County.		*******	1	Lake County			1
Lancaster County	9	4	14	McPherson County		3	
Laurence County	3	7	2	Minnehaha County		-	1
Lebanon County		8	2 7	Roberts County		1	
Lehigh County Luzerne County	3	9	4	Lake County McPherson County Mellette County Minnehaba County Roberts County Sanborn County Spink County		1	
Luzerne County	3	9	5	Spink County Tripp County			2
Lycoming County McKean County	2	2	6	Tripp County	4	1	
Mercer County	2	2	8	Motol .	8	16	13
Miff in County	1	10	21	Total	- 3	10	10
Monroe County			2	Vermont:			
Montgomery County	7	. 10	7	Bounington County		2	2
Montour County		1	1	Caledonia County Chittenden County Franklin County Rutland County			1
Northampton County	2	5	5	Chittenden County			1
Northumberland		1	97	Franklin County	2		1
Perry County		9	27	Rutiand County			
Philadelphia County. Schuylkill County	24	31	56	Total	2	2	6
Schuylkill County	6	3		400000000000000000000000000000000000000			
Snyder County Somerset County			3	Virginia:			
Somerset County		13	7	Accomae County	13	22	13
Susquehanna County			5	Albemarle County	4	7	7
Susquehanna County Tioga County	1		8 3 7 5 2 2	Allegheny County Amelia County Amherst County	3 5	8	4
Union County		******	2	Amborst County	3	2	1
Union County Venango County Warren County Washington County Wayne County.	1	******		Appomattox County	2	2 1 1	
Washington County.	7	15	13	Arlington County	1		2
Wayne County	2	3	1	Augusta County	4	8	2
Wayne County Westmoreland				Apromattox County Arlington County Augusta County Bath County Bedford County	1	3	
County	5	6	4			4	1
Wyoming County York County		3	9	Bland County Botetourt County	1	1	1
York County	9	- 0		Brunswick County	7	3	
Total	180	321	448	Buchanan County	i	2	3
				Campbell County		9	12

TYPHOID FEVER-Continued.

	New	cases rep	ported.		New	cases rep	orted.
Place.	July.	August.	Septem- ber.	Place.	July.	August.	Sep- tember
Virginia—Continued.				Virginia—Continued.			- 1
Carroll County Charlotte County	3	6	5	Rockingham County. Russell County	7	5	
Carroll County	8	4	1	Russell County	10	4	1
Charlotte County	2			Scott County	3	9 3	,
Chesterfield County Clarke County		4		Smyth County	1	6	
Culpeper County	2		4	Southampton County Spotsylvania County. Stafford County	39	30	
Cumberland County .		2	2	Spotsylvania County.	4	4	
Dickenson County	4	5	7	Stafford County			
Dinwiddie County Elizabeth City Coun-	4	7		Surry County Sussex County Tazewell County			
Elizabeth City Coun-				Sussex County	1	*******	
ty	3	3	2	Warren County	23	13	
Essex County	1	- 1	2	Washington County	3	. 11	
Fairfax County Fauquier County		8	-	Westmoreland			
Floyd County	2	8 2	2	County	6	4	
Fluvanna County				Wise County	1		
Franklin County	4	1	2	Wythe County	4	9	
Frederick County		1	2	York County	1	3	
Frederick County Giles County Gloucester County	3	1	1 5 2 4	Total		381	
Gloucester County Goochland County Grayson County		2	5	TOM	358	351	26
			4	Washington:	-		-
Grayson County Greene County Greensville County	2	2 5	3	Asotin County. Benton County. Chelan County. Clarke County. County.		2	
Greensville County	2		4	Benton County			
Halifax County Hanover County Henrico County—	5	4		Chelan County	1	1	
Hanover County	1	3	4	Clarke County		2	
Henrico County-				Cowlitz County Franklin County Grant County Grays Harbor County King County		1	
Richmond	5	21	10	Franklin County		1	
Scattering	2	27	2	Grant County	1	1	
Henry County Isle of Wight County.	1 15	21	2	Ving County	4	9	1
James CityCounty	2	1	- 1	Kitsap County			
King and Queen	-	-		L'ittitue Countr			
County	2	3	1	Kitsap County Kittitas County Klickitat County Lewis County	1	1	
King William County	2	2	1	Lewis County	4	3	
Lancaster County	1	1		Lincoln County	- 1	1	
Lee County Loudoun County	2 3	1	2	Okanogan County		1	
Louise County	4	4 2	2 2 2	Lincoln County Okanogan County Pacific County Pierce County Skagit County Snohomish County	3	10	
Louisa County Lunenburg County	4	ī	2	Skagit County		3	
Madison County	6	3	2 2	Snohomish County-			
Mathews County	1		- 1	Snohomish County— Everett	6	58	
Mecklenburg County. Middlesex County	1	1	1		******	5	
Middlesex County	6	1	2 3	Spokane County		2	
Montgomery County . Nansemond County .	3	8 5	5	Walle Walle Courses	1	5	
Nelson County	1	1		Whatcom County		1	
New Kent County	1			Whitman County	1		
Norfolk County—		- 1	- 1	Yakima County	9	2	1
Norfolk	16	9	3	m-4-1	00	100	-
Portsmouth	17	6	2	Total	33	108	8
Scattering Northampton County	11 3	3	9	West Virginia:			
North ii m berland	- 1			73 -1		3	
County		1		Berkeley County Boone County Braxton County Brooke County Cabell County Calloun County	3	2	
Nottoway County			2	Boone County	6	8	
Orange County	3	3	1	Braxton County	1	6	1
Page County			1	Brooke County			
		4	2	Cabell County	13	3	
Pittsylvania County .	6	8	2	Clay County		1 2	
Prince Edward				Doddridge County		1	
County	2		1	Favette County	3		
Prince George County				Calen County Caly County Doddridge County Fayette County Gilmer County Grant County		1	
Princess Anne County	5	1	4	Grant County			
Princess Anne County Prince William				Greenbrier County	2		
County	1			Greenbrier County Hampshire County	2	3	
Pulaski County	2	3	2	Hancock County	2	6	
Rappahannock	1	1	1	Harrison County Jackson County	2	2	
County		1		Jefferson County	1	-	
Roanoke	4	7	12	Jefferson County Kanawha County	22	22	1
Scattering	2	4	2	Lewis County	22	3	
Deskind description	9 1	9 1		Limento Countre	1	8	

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TYPHOID FEVER-Continued.

	New	cases rej	ported.		New cases reported.			
Place.	July.	August.	Septem- ber.	Place.	July.	August.	Septem ber.	
West Virginia-Contd.				Wisconsin—Continued.				
Logan County		15	18	Jefferson County		1		
McDowell County		7	2	Kewaunee County	1			
Marion County		2	5	La Crosse County				
Marshall County		-	4	Lafavette County	1			
Mason County			10	Lafayette County Lincoln County	-			
Mason County	2	8	10	Manitowee County	1			
Mercer County	2	2		Manitowoe County Marathon County	2	8		
Mineral County		13	2 4	Marathon County	3	ĭ		
Mingo County		13	6	Marinette County	9	3		
Monongalia County			0	Marinette County Milwaukee County Monroe County Oneida County	-	0		
Monroe County	1	1		Monroe County		5		
Morgan County	2		1	Oneida County	2	1		
Nicholas County		8	7	Outagamie County				
Ohio County	1	13	9	Price County		-		
Pendleton County		1	1	Racine County		1		
Pocahontas County				Rock County	5	1		
Preston County		17	20	St. Croix County	1			
Putnam County	1	4	6	Sawyer County Shawano County	1			
Raleigh County	6	3	2	Shawano County		1		
Randolph County	8	9		Trempealeau County.	1	******		
Ritchie County	2		1	Vernon County				
Roane County	4	11	16	Washington County Waupaca County	1	1		
Summers County	4	8	30	Wannaca County	1	1		
Taylor County		3	4	Winnebago County	2	1		
Tucker County	11		6	Wood County		3		
Tyler County	1	1		Wood County				
Upshur County		7	1	Total	27	36	3	
Wayne County			3	10101				
Webster County	1	8	3	Wyoming:				
Wirt County			1	Big Horn County		2		
Wood County		2	6	Campbell County				
Wyoming County	2	4	7	Fremont County				
" young county	_			Fremont County	9			
Total	140	221	270	Hot Springs County.	1			
				Laramie County	2	2		
Wisconsin:				Natrona County				
Barron County	1		1	Park County				
Brown County		2	3	Sheridan County	3	1	******	
Crawford County				Sweetwater County		. 1		
Door County			i	Washakie County				
Douglas County		9			-	- 0	- 1	
Forest County		-		Total	0	9	1	
Forest County								
Green County	4	•						
			TYPHUS	FEVER.				
Arkansas	2 2	4 2	1	District of Columbia		1		

SUMMARY OF DISEASES.

grand and Albanes	New	cases rep	ported.		New cases reported.			
State and disease.	July.	Aug.	Sept.	State and disease.	July.	Aug.	Sept.	
Alabama: Cerebrospinal meningitis (epidemic) Chicken pox	25	27	3 26	Alabama—Continued. Messles	025 14	555 3	272	
Dengue Diphtheria Dysentery Influenza Lethargi; encephalitis Malaria	12 54 295 52 1 634	19 153 233 34 1 1,644	9 259 71 98	Pellagra Pneumonia (all forms) Poliomyelitis. Scarlet fever. Smallpox	65 71 3 30 3	51 81 10 56 8	47 44 2 78 8	

SUMMARY OF DISEASES—Continued.

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	New	cases re	ported.		New cases reported.			
State and disease.	July.	Aug.	Sept.	State and disease.	July.	Aug.	Sept.	
Alabama—Continued.				California—Continued.				
Tetanus	4			Scarlet fever	325	254	23	
Tuberculosis (all	197	164	108	Smallpox	135	119	. 3	
forms) Typhoid fever	137 352	500	265	Tetanus	5 5	12	3	
Whooping cough	218	166	132	Tuberculosis (all		1.2		
Arizona:		-		forms)	573	827	65	
Chicken pox	1	1	2	Typhoid fever	72	152		
Diphtheria	9	32	9	Typhus fever	2	2		
Leprosy Measles	10	8	10	Whooping cough Colorado:	340	313	16	
Mumps	2		1	Cerebrospinal men-				
Pneumonia (all forms)	2	2	3	ingitis (epidemic)	1	. 3		
Poliomyelitis	1			Chicken pox Diphtheria	51	18	:	
Rabies			1	Diphtheria	159	145	19	
Scarlet fever	12	9	20	Impetigo contagiosa		1		
Smallpox	3	1	·····i	Influenza	291	124		
Trachoma Tuberculosis (all	00000000			Measles	48	11	1	
forms)	66	1 95	114	Paratyphoid fever	1		,	
Typhoid fever	6	6	10	Pneumonia (all forms)		2		
Whooping cough	12	2		Poliomyelitis		1		
rkansas:				Rabies	1		*****	
Cerebrospinal men-	9			Scarlet fever	62	44		
ingitis (epidemic)	3 43	3 50	43	Septic sore throat Smallpox	2			
Chicken pox	310	00	6	Tube reulosis (all		******	******	
Dengue Diphtheria	9	21	39	forms)	412	361	2	
Hookworm disease	6	6	7	Typhoid fever	42	67	10	
Influenza	17	31	52	Whooping cough	110	93		
Malaria	1,053	1,324	1,080	Connecticut:				
Measles	328 19	118	76 111	Cerebrospinal menin-	9	3		
Orbithalmia neona-	10	9	111	gitis (epidemic)	95	17	1	
Ophthalmia neona- torum	1	2	1	Chicken pox Conjunctivitis (in-	00	**		
Paratyphoid fever	12	9	3	fectious)	1	2		
Pellagra	152	54	76	Diphtheria	127	125	1	
Pneumonia (all forms)	2	1		Dysentery (amebic) Dysentery (bacillary)	1	1		
Poliomyelitis	7	10	27	Dysentery (bacillary)	3 8	10		
Scarlet fever	31	5	17	German measles Influenza	1	7		
Smallpox	7	11	8	Lethargic encephalitis	7	5		
TrachomaTuberculosis (all				Malaria	12	9		
IM HIS Second on contract	105	55	52	Malaria Measles	258	113		
Typhoid fever	169	162	138	Mumps	31	19		
Typhus fever	2	124	142	Occupational diseases		3		
Whooping cough	284	134	142	and disabilities Ophthalmia neona-	*******	0		
Anthrax	1	2	3	torum	1			
Beriberi		1		Paratyphoid fever	1	2		
Cerebrospinal men-				Pneumonia (lobar)	32	22	1	
ingitis (epidemic)	13	10	5	Poliomyelitis	9	17		
Chicken pox	311	145	126 634	Scarlet fever	115	99	1	
Diphtheria Dysentery (amebic)	517	578 8	1	Septic sore throat Smallpox	3	11		
Dysentery (bacillary).	12	30	i	Trichinosis		4		
German measles	22	16	7	Tuberculosis (pul-				
Hookworm disease		2		monary)	132	132	1:	
Influenza	40	17	45	Tuberculosis (all		***		
Jaundice (epidemic) Leprosy	1	3		forms)	143	148	. 13	
Lethargic encephalitis	12	14	6	Tetanus Typhoid fever	30	56		
Malaria	21	26	29	Whooping cough	289	229	1	
Monclos	1,617	923	830	Delaware:	-			
Mumps	36	29	24	Anthrax	1			
Mumps Ophthalmia neona- torum				Anthrax				
torum	2	7	6	gitis (epidemic)		1		
Paratyphoid fever Pellagra		3	6	Chicken pox Diphtheria	1	2		
Plagra (human)	4	3	2	Influenza	5	8		
Plague (human) Pneumonia (lobar)	185	193	170	Malaria	4	7	*****	
Poliomyelitis	8	23	40	Measles	9	7		
RabiesRocky Mountain		1	1	Pneumonia (all				
The above Management of the			1	forms)	2	1		

180 of these cases reported by Government hospitals.

SUMMARY OF DISEASES-Continued.

	New	cases rep	oorted.	-	New	New cases reported		
State and disease.	July.	August.	Sep- tember.	State and disease.	July.	August.	ten	
Delaware—Continued.				Idaho:				
Scarlet fever	20	35	17	Chicken pox		6		
Tuberculosis (all				Diphtheria	1	1		
forms)	17	25 24	15 17	Lethargie encephalitis Measles Mumps Ophthalmia neona-	12	10		
Typhoid fever	5	8	1	Mumps	3			
Whooping cough District of Columbia:	U		_	Ophthalmia neona-			1	
Cerebrospinal meningitis (epidemic) Chicken pox Diphtheria				torum		1		
gitis (epidemic)	1	1		Paratyphoid lever	3	12		
Chicken pox	47	9	5 26	Smallpox	3	8		
Diphtheria	11	1 4	5	Trachoma				
Influenza Leprosy	1			Tuberculosis (pul-				
Lethargie encephali-				monary) Typhoid Fever	6	13		
Lethargic encephali-	2		1	Typhoid Fever	3	28 23		
Measles	73	11	7 3	Whooping cough	0	40		
Poliomyelitis	23	7	26	Cerebrospinal men-				
Scarlet fever	1	2	19	Cerebrospinal men- ingitis (epidemic)	8	12		
Tuberculosis (pul-				Chicken pox	327	113		
Tuberculosis (pul- monary)	122	109	92	Continued fever	392	411		
Tuberculosis (all forms)	*00	111	98	Diphtheria Dysentery	135	260		
forms)	126	114 20	20	German measles Influenza	13	5		
Typhoid fever Typhus fever	1.0	1	20	Influenza	28	11		
Whooping cough	96	34	32	Lethargic encepha-		-		
Florida:	-		1	Lethargie encepha- litis	11	14		
Anthrax		2		Malaria	1, 420	306		
Cerebrospinal menin-		5	3	Mumps	247	110		
gitis (epidemic) Chicken pox	******	5		Occupational diseases				
Dengue	3	3	1	and disabilities	12	31		
Dengue Diphtheria	21	43	48	Ophthalmia neona-	OFF	90		
Dysentery		11	5	Porntyphoid favor	27 5	38	1	
German measles		120	1 70	torum	1	9		
Hookworm disease	54 1	112 29	70	Pneumonia (all forms)	388	330		
Influenza Leprosy	i			Foliom veillis	1.1	37		
Lethargic encephali-				Puerperal septicemia.	4	4	1	
tis		1		Scarlet fever Septic sore throat	241	227		
Majaria	52	139	145	Smallpoy	39	24		
Measles	101	69	79	Smallpox Tetanus	7	6		
Ophthalmia neona-	1			Trachoma	3	7		
Ophthalmia neona- torum.	2		1	Trichinosis		6		
Paratyphoid fever			1	Tuberculosis (all forms)		1 100	١,	
Paratyphoid fever Pellagra	4	16	7	Typhoid fover	1,151	1, 122 233		
Pneumonia (all forms)	2	73	20	Typhoid fever Whooping cough	953	694		
Poliomyelitis	2	13	39	Indiana:	****			
Scarlet fever	4	4	i	Cerebrospinal menin-				
Smallpox	7	1		gitis (epidemic)	*******	111		
Tetanus		13	5	Diphtheria Influenza	64	111		
Tuberculosis (all	35	158	75	Measles	498	145		
forms) Typhoid fever	31	64	36	Pneumonia (all forms)	3	2		
Whooping cough	24	24	25	Pneumonia (all forms) Poliomyelitis	1	- 1		
Hawaii:				Scarlet fever	73	76		
Cerebrospinal menin-				Smallpox	97	42		
gitis (epidemic)	*******	1	. 4	SmallpoxTuberculosis (all forms)	192	154		
Chicken pox Conjunctivitis (fol-	6	2		Typhoid fever	35	60		
licular)		1		Iowa:				
licular) Diphtheria	24	8	11	Cerebrospinal menin-				
Dysentery (amebic)	. 1		2	gitis (epidemic)		*******		
Influenza	154	205	134	Diphthoria	5 58	74		
Dysentery (amebic) Influenza Leprosy Measles	4	5 9	13	Chicken pox Diphtheria Induenza	1	**		
Plague	11	9	13	Measles	60	10		
Plague	6	1		Measles	3	2		
Tetanus		3	1	Pneumonia (all forms)	1			
Trachoma		3	7	Poliomyelitis	61	22 78		
Tuberculosis (all	-	80	83	Scarlet fever	22	14		
forms)	87 17	58 22	15	Smallpox Tuberculosis (all				
Typhoid fever Whooping cough	14	4	7	forms)	6	14		

² Deaths.

SUMMARY OF DISEASES-Continued.

	New	cases rej	ported.		New	cases rep	orted
State and disease.	July.	August.	Sep- tember.	State and disease.	July.	August.	Sej
owa—Continued.				Maryland—Continued.			
Typhoid fever 3	8	25	18	Diphtheria	86	112	
Whooping cough	70	14	9	Dysentery	59	77	
Cansas:				German measles	2	2	
Actinomycosis	1			Impetigo contagiosa			
Cerebrospinal menin-				Influenza	. 6	18	
gitis (epidemic)		4	3	Lethargic encephalitis		1	
Chicken pox	40	5	53	Malaria	44	33	
Continued fever	1			Measles	695	198	
Diphtheria Dysentery (bacillary)	89	103	199	Mumps	39	18	
Dysentery (bacillary)	1	2	2	Ophthalmia neona-			
German measles		*******	2	torum	3	3	
Influenza	1	10	2	Pellagra Pneumonia(all forms)	91	70	
Lethargic encepha-		5	2	Poliomyelitis	1	76	
Malaria		13	3	Rabies in animals		-	
Measles	435	123	111	Scarlet fever	114	128	1
Mumps	38	26	24	Septic sore throat	3	140	i
Ophthalmia neona-	90	2.0		Smallpox	0	1	
torum	1			Tetanus	2	5	
Pellagra	1			Tuberculosis (all	-		1
Pneumonia (all forms)	9	18	13	forms)	285	208	
Poliomyelitis	8	70	29	Typhoid fever	114	275	
Scarlet fever	90	174	248	Vincent's angina	1	2	
Septic sore throat	2			Whooping cough	388	264	
Smanpox	17	9	27	Massachusetts:			
Tetanus	4		2	Actinomycosis	1		
Tuberculosis (all				Anthrax			
forms)	184	154	79	Cerebrospinal menin-			
Typhoid fever	108	225	146	gitis (epidemic)	11	10	
Whooping cough	419	205	142	Chicken pox	377	116	
ouisiana:				Conjunctivitus (sup-	400		
Beriberi Cerebrospinal menin-	1			purative)	47	44	
			9	Diphtheria	486	564	
gitis (epidemic) Chicken pox	2		2	Dysentery German measles	20	14	
Dengue	9	58	91	Hookworm disease	1	14	
Diphtheria	44	95	81	Influenza	3	11	
Dysentery	8	2	01	Lethargic encephali-	9	2.4	
Hookworm disease	31	19	60	tis	8	12	
Influenza	2	4	24	Malaria	3	3	
Leprosy		1	6	Measles	1,035	271	
Lethargic encepha-		-		Mumps	270	101	
litis	1		1	Occupational diseases			
Malaria	118	78	119	and disabilities	14	4	
Measles	138	30	21	Ophthalmia neona-			
Mumps	1			torum	77	70	
Ophthalmia neona-				Pellagra	5	2	
torum	1	2		Pneumonia (lobar)	92	80	
Pellagra	32	10	4	Poliomyelitis	8	26	
Pneumonia (all forms)	50	41	65	Rabies			
Poliomyelitis	3	2	3	Scarlet fever	441	282	
Scarlet fever		15	10	Septic sore throat Smallpox	6	9	
Tuberculosis (all	13	7	26	Tetanus	6	3	
forms)	107	113	109	Trachoma	9	3	
Typhoid fever	102	127	89	Trichinosis		2	
Whooping cough	54	32	19	Tuberculosis (all		-	
ine:	-		-	Tuberculosis (all forms)	601	499	
Chicken pox	30	9	32	Typhoid fever	58	64	
Diphtheria	20	23	33	Whooping cough	472	375	
German measles	4		1	Michigan:			
Measles	302	148	128	Chicken pox	199	43	
Mumps	1		4	Diphtheria	371	419	
Paratyphoid fever		1	1	Malaria		3	
Pneumonia	9	5	6	Measles	2,027	357	
Poliomyelitis		2	2	Mumps	72	22	
Scarlet fever	42	74	53	Penagra	2	*******	
Smallpox		3		Pneumonia(allforms)	200	130	
Tuberculosis (all	-		45	Poliomyelitis	3	7	
forms)	20	61	42	Scarlet fever	453	363	
Typhoid fever	14	22	27	Smallpox	118	51	
Whooping cough	94	56	162	Streptococcie sore			
ryland:				throat	9		
Anthrax Cerebrospinal menin-	1			Tuberculosis (all	759	411	
	-			forms)			
gitis (epidemic)	2	1	1		77	106	

⁸ Typhcad fever is not required by law to be reported in Iowa.

SUMMARY OF DISEASES-Continued:

	New	cases re	ported.		New	cases rep	orted.
State and disease.	July.	August	Sep- tember	State and disease.	July.	August	Sep- tember.
Minnesota:				Nebraska—Continued.			
Cerebrospinal men-				Malaria	95	. 1	
ingitis (epidemic)	2 54	26	85	Measles	35 26		35
Chicken pox Diphtheria	205		460	Mumps Pneumonia (all forms)			
Influenza	3		2	Poliomyelitis	3	39	32
Leprosy		. 1		Scarlet fever	33		111
Lethargic encephalitis	2		2	Septic sore throat	2		6
Malaria		1	000	Smallpox		. 5	3
Measles	327 10	81	337	Tetanus	1		*******
Pneumonia(allforms) Poliomyelitis	4	15	17	Tuberculosis (pul- monary)	24		10
Scarlet fever	367	396	738	Tuberculosis (all			-
Smallpox	80	43	34	forms)		13	
Tetanus		. 2		Typhoid fever	24	6	4
Trachoma	1		7	Whooping cough	42	44	47
Turerculosis (an	301	349	263	New Jersey:	1		
Typhoid fever	31	65	67	Anthrax. Cerebrospinal menin-		*******	
Whooping cough		92	80	gitis (epidemic)	6	10	6
Mississippi:		-	1	Chicken pox	202	49	59
Anthrax in man	1		4	Chicken pox Diphtheria	291	268	348
Chicken pox	178	151	175	Dysentery	4		3
Dengue	14	8	8	German measles	15	9	6 28
Diphtheria	60 48	137 25	348	Influenza	18	15	3
Dysentery (amebic) Dysentery (bacillary)	1,824	600	513	Measles	645	110	88
Hookworm disease	302	385	319	Occupational diseases			-
Influenza	89	168	175	and disabilities	1		3
Influenza	13,287	17, 141	16, 336	Ophthalmia neona-		-	
Measles	664	407	250	torum	5	5	1
Mumps	88	39	70	Paratyphoid fever Pneumonia (all forms)	109	126	109
Ophthalmia neona- torum	13	16	20	Poliomyelitis	13	43	39
Pellagra	880	608	416	Rabies (in man)		1	
Pneumonia (all	000	-	***	Scarlet fever	114	84	108
forms)	188	248	236	Smallpox	17		1
Poliomyelitis	4	1	3	Trachoma	2	1	2
Puerperal septicemia.	32	49	36	Tuberculosis (all	476	353	403
Rabies in animals	6	12	15 2	forms) Typhoid fever	53	96	100
Rabies in man Scarlet fever	14	24	73	Whooping cough	372	271	169
Smallpox	22	10	7	New Mexico:	0.0		200
Trachoma	5	4	2	Chicken pox	2	2	
Tuberculosis (all				Conjunctivitis (acute).		2	6
forms)	265	248	219	Diphtheria	84	81	67
Typhoid fever	327	320	241	Dysentery		3	5
Whooping cough	1,060	736	736	Influenza Lethargic encepha-			
Actinomycosis	1			Lethargic encepha-	1		
Class bearing in a large man in				Malaria	1	7	
gitis (epidemic) Chicken pox Diphtheria Dysentery German measles	******	2	2	Measles	45	28	22
Chicken pox	29	7	35	Mumps	2	1	3
Diphtheria	11	32	35	Pellagra Pneumonia (all forms)	5	1	1 4
Corman moscles	******	1 1		Poliomyelitis			i
Influenza	*****	4	4	Puerperal septicemia.	1		
Lethargic encepha-		- 1		Rabies (in animals)			1
Lethargic encepha- litis			3	Scarlet fever	1	7	17
Measles	49	24	153	Septic sore throat		2	1
Mumps			3	Smallpox		3	400000
THEORIGINAL CARLOTTES !	0 1	4	6	Trachoma	3	1	48
Poliomyelitis	1	3	5	Tuberculosis (all forms)	39	51	72
Rocky Mountain	*			Typhoid fever	31		75
Rocky Mountain spotted or tick	- 1		1	Whooping cough	6	12	16
fever	4 1	2	1	New York:			
Scarlet fever	37	28	31	Anthrax			1
Septic sore throat	4 .		1	Cerebrospinai men-			0*
Smallpox	21	11	32	ingitis (epidemie)	14	16	25
Tuberculosis (all	20	91	32	Chicken pox Diphtheria	849 959	297 660	234 788
Typhoid fever	19	31 15	34	Dysentery	5	1	4
Whooping cough	12	18	25	German measles	102	44	28
ebraska:				Influenza	27	37	63
Chicken pox	10		25	Letnargic encepha-			
Diphtheria	28 32	83	66	litis	40	50	23
		1.1	7	Malaria	29	45	27
Influenza Lethargic encepha-	04	- 1		Measles	4,866	1, 164	627

SUMMARY OF DISEASES—Continued.

	New	cases rej	ported.		Nev	v cases re	ported.
State and disease.	July.	August	Sep- tember.	State and disease.	July.	August	Sep- tember
New York-Continued.				Oklahoma:			
Ophthalmia neona-				Cerebrospinal menin-	1		
torum	5	1		gitis (epidemic)	-	. 1	
Paratyphoid fever	6	9	8	Diphtheria	99		3
Pneumonia (all forms)		596	700	Dysentery Influenza	- 27		1
Poliomyelitis		231	196	Influenza	- 13		
Puerperal speticemia.	8	6	2	Malaria	10		
Scarlet fever	685	425	527	Measles	45	52	
Septic sore throat Smallpox	18 56	11 25	7 7	Pellagra Pneumonia (all forms		. 3	1
Tetanus	25	9	15	Poliomyelitis		. 5	*******
Trachoma	14	1	10	Puerperal senticemia		3	1
Tuberculosis (all	4.1			Puerperal septicemia Rabies Scarlet fever		i	*******
forms)	2,081	1,855	1,544	Scarlet fever	21	20	45
forms)	181	383	409	Smallpox	30	10	6
Vincent's angina	15	12	14	Trachoma		3	1
Whooping cough	1, 237	1,130	975	Tuberculosis (all	1	1	
North Carolina:		,		forms)		. 29	
Cerebrospinal men-				Typnoid iever	121	164	48
ingitis (epidemic)	4	3	2	Whooping cough	15		
Chicken pox	63	27	44	Oregon:		1	
Diphtheria	144	311	817	Chicken pox	32		18
German measles	4	2	11	Diphtheria		36	57
Measles Ophthalmia neona-	1,754	699	510	Influenza	2		i
Ophthanina neona-	0			Malaria Measles			
Poliomyelitis	2 2	2	2	Mumps	22 10	14	46
Scarlet fover	51	135	288	Mumps Pneumonia (all forms)	10	9	4
Scarlet fever Septic sore throat	10	3	23	Poliom velitis			1
Smallpox	118	88	52	Poliomyelitis Rocky Mountain			
Trachoma	2	1	1	spotted or tick fever	5		
Typhoid fever	461	342	206	Scarlet fever	39		60
Typhoid fever Whooping cough	1, 419	867	921	Septic sore throat			2
orth Dakota:	,			Smallpox	62	36	20
Chicken pox	26	9	6	Tuberculosis (all			
Diphtheria	10	51	37	forms)	44	47	. 23
Lethargic encephalitis		1		Typhoid fever	5	23	31
Measles	144	97	57	Whooping cough	32	15	17
Mumps	1			Pennsylvania:			
Pneumonia (all forms)	6	5	5	Anthrax		2	
Poliomyelitis	00	5	3	Cerebrospinal menin-		14	-
Scarlet fever Smallpox	26 12	62	49	gitis (epidemic)	11	14	7
Trachoma	2	22 7	5	Chicken pox Diphtheria	442 707	153 786	223
Tuberculosis (all	-		*******	German measles	21	9	1, 132 16
forms)	11	14	17	Impetigo	21	7	92
Typhoid fever	3	19	31	Lethargic encephalitis	16	i	5
Typhoid fever Whooping cough	12	29	30	Malaria Measles	3	3	1
hio:				Measles	1,615	400	459
Anthrax	1	1		Mumps Ophthalmia	133	102	104
Cerebrospinal menin-				Ophthalmia	5	4	15
gitis (epidemic)	6	1	2	Pellagra	1	1	*******
Chicken pox Diarrhea and enteri-	318	78	160	Pneumonia (lobar)	159	169	179
tia (under 2 more)	-	F0	07	Poliomyelitis Puerperal fever	5	23	49
tis (under 2 years)	382	53	27	Sonbios	9	3	3
Diphtheria Dysentery	2	526	823	Scables Scarlet fever	424	416	28 722
German measles	16	5	2	Smallnov	22	6	122
Influenza	4 1	6	7	Smallpox Tetanus	22	5	5
Lethargic encephalitis	6	2 .		Trachoma	7	2	7
Malaria	4	5 .		Tuberculosis (all		-	
Measles	960	283	99	forms)	552	459	454
Mumps	49	26	28	Typhoid fever	180	321	448
Occupational diseases				Whooping cough	1,309	1,040	997
and disabilities	48	39	35	Rhode Island:			
Ophthalmia neonato-				Anthrax	1		1
Paratyphoid fever	133	155	149	Cerebrospinal menin-			
Programments (-1)	4	7	5	gitis (epidemic)		1	1
Pneumonia (all forms)	109	137	123	Chieken pox	10	2	3
Poliomyelitis	9	10	18	Diphtheria	43	43	43
Puerperal septicemia. Scarlet fever	140	100	1	Dysentery	1		. 1
Septic sore throat	442	469	744	Influenza Malaria	*******	******	1
Smallpox	124	24 46	40	Measles	63		00
Tetanus	7	40	2	Mumps	9	9 2	20
Trachoma	14	12	3	Ophthalmia neona-	9	4	1
Tuberculosis* (all	**	14	9	torum.		3	1
forms)	610	582	463	Paratyphoid fever		1	
Typhoid fever	223	315	353	Pneumonia (all			
Whooping cough	1,096	790	493	forms)	5		2
w m			200 11		4 1		to the

SUMMARY OF DISEASES-Continued.

	New	enses rep	orted.		New	cases rep	orted.
State and disease.	July.	August.	Sep- tember.	State and disease.	July.	August.	Sep- tember
Rhode Island—Con.				Virginia—Continued.			
Poliomyelitis	2	2		Mala ia	376	546	43
Scarlet fever	27	13	25	Measles	1,680	836	46
Septic sore throat		1		Pellagra	29	13	1
Tetanus		0		Poliomyelitis	57	20	1
Tuberculosis (pul-	-40	1	99	Scarlet fever	72 23	160	21
monary)	48	36	33	Tuberculosis (all	20	0	,
Tuberculosis (all	57		43	forms)	179	97	13
Typhoid fever	7	38		Typhoid fever	358	381	20
Whooping cough	25	10	6	Whooping cough	785	631	5
outh Carolina:		2		Washington:			
Cerebrospinal menin-		1		Cerebrospinal men-			
gitis (epidemic)		1		ingitis (epidemic)		1	
Diphtheria	99	193	231	Chicken pox	69	51	3
Dysentery Hookworm disease	7 3	4	3	Diphtheria	77	77	1
Hookworm disease	3	15	5	Dysentery		4	
Influenza	32	44	9	German measles	4	13	
Measles		40	33	Impetigo contagiosa	1	*******	
Mumps	3	12	10	Influenza	*******	2	
Onhthalmia neona-				Lethargic encephalitis		-	
torum		10		Malaria Measles	177	61	
Paratyphoid fever Pellagra		0		Mumps	34	14	
Pellagra	1	4	1	Pneumonia (all	-		
Poliomvellus		1 13	15	forms)	1	2	
Scarlet fever Septic sore throat		17	10	Poliomyelitis	1	7	
Smallpox	7	8	8	Scarlet fever	75	95 68	1
Tuberculosis (all		-	-	Smallpox	67	1	
forms)	8	15	4	Tuberculosis (all			
Typhoid fever	48	68	27	forms)	137	171	1
Whooping cough	28	63	35	Typhoid fever	33	108	
outh Dakota:				Vincent's angina		1	
Anthrax		- 4	1	Whooping cough	233	192	
Cerebrospinal menin- gitis (epidemic)	1		2	West Virginia:			
Chicken pox		5	11	Cerebrospinal menin-			
Diphtheria	32	24	58	gitis (epidemic)	9	2	
DiphtheriaInfluenza		2		Chicken pox		6	
Measles	159	70	46	Diphtheria	55	76	2
Mumps		1		German measles,	10	11	
Pneumonia (all			2	Influenza	18 436	13 94	
тогиз)	5	5 3	6	Measles Poliomyelitis	7	10	
Poliomyelitis Scarlet fever		66	123	Scarlet fever	89	113	2
Smallpox	3	1	38	Smallpox	8	4	
Tetanus	i	î		Tuberculosis	140	37	
Trachoma	1	1	2	Typhoid fever	140	221	
Trichinosis	2			Whooping cough	250	173	
Tuberculosis (all		1		Wisconsin:			
forms)	26	19	18	Cerebrospinal menin-	4	5	
Typhoid fever	10	16 15	23	gitis (epidemic) Chicken pox	208	51	
Whooping cough	10	10	20	Diphtheria	255	211	
Chicken pox	28	35	24	German measles	4		
Diphtheria		9	24	Influenza	26	16	
Measles	483	159	126	Lethargic encepha- litis	-		
Mumps	33	36	22	litis	1 2	2	
Pneumonia (all				Measles	1,360	283	1
forms)	1	1		Mumps	6	-	
Poliomyelitis	29	25	11 36	Ophthalmia neona- torum	3		
Scarlet fever Septic sore throat	40	9		Pneumonia(all forms)		- 8	
Smallpox	22	14	7	Poliomyelitis		9	
Tuberculosis (pul-		-	, ,	Scarlet fever	448	234	2
monary)	16	34	25	Smallpox	67	31	
Typhoid fever	2	2	6	Tuberculosis (all			
Whooping cough	103	151	194	forms)	235	136	1
irginia:				Typhoid fever	27	36	1
Cerebrospinal men-	-	-0	4.0	Whooping cough	654	517	-
ingitis (epidemic)	7	12	10	Wyoming: Cerebrospinal menin-			
Chicken pox	9 421	1, 435	73 698	gitis (epidemic)		1	
Diarrhea	2, 421 95	1,435	499	Chicken pox	2		*****
Diphtheria Dysentery	1,553	789	326	Diphtheria	ī	1	
Hookworm disease	32	28	10	Dysentery		2	
Influenza		4 3, 033	431	Measles	95	41	

^{12,707} cases reported as "Dabney's grip."

SUMMARY OF DISEASES—Continued.

	New	cases rep	orted.		New cases reported.			
State and disease.	July.	August.	Sep- tember.	State and disease.	July.	August.	Sep- tember.	
Wyoming—Continued. Mumps	1 1 2	i i 1	2 2 4 4	Wyoming—Continued. Scarlet fever Smallpox. Tuberculosis (all forms). Typhoid fever Whooping cough	10 3 4 9 4	7 4 9 13	10 2 14 11	

MAINE REPORT FOR JUNE, 1923 (DELAYED).

*	New cases reported.		New cases reported.
Cerebrospinal meningitis (epidemic): York County	1	Tuberculosis	38
Chieken pox. Diphtherin. German measles. Measles. Mumps. Preumonis. Scarlet fever.	52 32 78 906	Typhoid fever: Androscoggin County Aroostook County. Cumberland County Hancock County. Penobscot County. Waldo County. York County.	. 2
Smallpox: Andrescoggin County. Oxford County. Washington County.	1 7 2	Total Whooping cough.	33 75
Total	10		

OKLAHOMA REPORT FOR JUNE, 1923 (DELAYED).

	New cases reported.		New cases reported.
Cerebrospinal meningitis (epidemie): Maves County.	. 1	Smallpox—Continued. Pawnee County	8
Diphtheria	16 28	Rogers County	10
Influenza		Tillman County	21
Malaria: Mayes County	9	Washita County	1
Tillman County	1	Total	90
Total Measies	10 215	Typhoid fever: Blaine County	1
Pellagra:		Carter County	16
Carter County Choctaw County	3	Cimarron County	1
McIntosh County	3	Ellis County	1
Total	7 34	Grady County	5
Smallpox:		McIntosh County	1
Bryan County	1 6	Noble CountyOklahoma County.	1
Carter County	3 8	Pottawatomie County	1
Garfield County	4	Rogers County	1
Johnston CountyLe Flore County	8 3	Woods County	
Major County	5 2	Total	55 47

FOREIGN AND INSULAR.

CUBA.

Communicable Diseases-Habana.

Communicable diseases have been notified at Habana as follows:

		1	November	Remaining under	
	Disease.	-	New cases.	Deaths,	treatment November 30, 1923,
			5	1	4
Malaria Measles			28 1	2	15 1 31 2
Paratyphoid fever					

From the interior, 23; from abroad, 1.
 From the interior, 19.

EGYPT.

Status of Plague.

Plague has been reported in Egypt as follows:

October 1-7, 1923-13 cases, of which 2 occurred at Alexandria, 3 at Suez, the remaining cases being distributed in three districts. October 8-14, 1923-16 cases, of which 2 occurred at Alexandria, 1 at Suez, and 13 in three districts. October 22-28, 1923-6 cases, of which 2 occurred at Alexandria, 1 at Suez, and 3 were distributed in two districts. October 29-November 4, 1923-17 cases, 1 each occurring at Alexandria and Suez, the remaining cases being distributed in three districts, the greatest number of cases having been notified in the district of Luxor, viz, 12. The total number of cases reported from January 1 to November 4, 1923, was 1,413, as compared with 459 cases reported during the corresponding period of the preceding year.

JAVA.

Plague-Smallpox.

Epidemic plague and smallpox have been reported in the island of Java as follows: October 3, 1923-at Kepoh, Residency of Soerakarta, epidemic plague; October 19, 1923, at Soerabaya City, epidemic smallpox. The municipal health department was stated to have offered free vaccination to all natives.

MALTA.

Communicable Diseases-October, 1923.

Communicable diseases were reported in the Island of Malta during the month of October, 1923, as follows: Influenza, 2 cases; malaria (imported), 2 cases; pneumonia, 7 cases, with bronchopneumonia, 4 cases; trachoma, 229 cases; undulant fever, 80 cases; whooping cough, 208 cases. Population, 218,510.

POLAND.

Communicable Diseases-Sept. 16-22, 1923.

Communicable diseases have been notified in Poland as follows:

Disease.	Cases.	Deaths.	Districts showing greatest number of deaths.
Cerebrospinal meningitis	10 91 213 414 67 344 43 4 75	5 7 14 33 140 27 4	Former Russian Poland. Posen. Lodz. Do. Lwow. Lodz; Lwow. Former Russian Poland. Do.

Dysentery-Rabies.

During the period September 16 to 22, 1923, 361 cases of dysentery with 42 deaths, area of greatest mortality, Lwow district, and 1 death from rabies occurring in Nowogrodek district, were reported in Poland.

UNION OF SOUTH AFRICA.

Plague-Cape Province.1

During the week ended October 27, 1923, a contact case of plague developed at Braklaagte Farm, 11 miles from Haarhoff's Kraal, where the occurrence of three cases of plague was reported October 18, 1923. The case at Braklaagte Farm developed in a member of the family of an infected native at Haarhoff's Kraal, and terminated fatally October 26, 1923. Investigation of the outbreak of plague shows the occurrence of two fatal cases among natives at Helpekaar Farm, about five miles from Haarhoff's Kraal on September 1 and 13 last. One of the cases occurring at Haarhoff's Kraal was found to have attended the funeral of the second case at Helpekaar, and to have spent two days at that place.

¹ Public Health Reports, Dec. 7, 1923, p. 2915.

Place.

Plague Infection in Wild Rodents.

Survey of the Union as regards veld rodents and plague shows that plague infection exists or has recently existed among veld rodents in a number of districts and localities in the Cape Province, Orange Free State, and the Transvaal.

Smallpox-Typhus Fever-September, 1923.

Smallpox and typhus fever were reported in the Union of South Africa during the month of September, 1923, as follows: Smallpox: Cases 40; deaths, 1, occurring among the native population. Typhus fever: Cases occurring in the native (colored) population, 316; deaths, 94; occurring in the white population, cases, 5; deaths, 1. For distribution of occurrence according to States see pages 3099–3100.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.

The reports contained in the following tables must not be considered as complete or final as regards either the list of countries included or the figures for the particular countries for which reports are given.

Reports Received During Week Ended December 21, 1923.1 CHOLERA.

Cases.

Deaths.

Remarks.

hoff's Kraal.

Date.

India				Sept. 23-29, 1923: Cases, 1,063;
Madras Philippine Islands:	Oct, 28-Nov. 3	1	1	deaths, 639.
Province— Davao	July 1-14	3	1	
	PLA	GUE.		
Brazil: Bahia	Oct. 28-Nov. 3	2	1	
Ceylon: Colombo Ecuador:	Oet. 21-27	3	1	Plague rodents, 4.
Ambato Chongon Guayaquil	do	2	4	Actual date, Oct. 1-15, 1923. Rats taken: 18,590; found infected
Jipijapa (Manabi) Zozoranga (Loja)	do			35. Present. Present; county district.
Egypt				Jan. 1-Nov. 8, 1923: Cases, 1,416; deaths, 687.
Alexandria Suez.	do	7 6		Sept. 23-29, 1923: Cases, 7,258;
Bombay Karachi Rangoon			3 1	deaths, 4,747.
Java: East Java— Kepoh	Oct. 3			Epidemic.
Siam: Bangkok Union of South Africa:	Oct. 14-27	2	2	
Cape Province— Braklaagte Farm	Oct. 26	1	1	In centact with case at Haar-

¹ From medical officers of the Public Health Service, American consuls, and other sources.

Reports Received During Week Ended December 21, 1923--Continued. SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil:	V 4 10		1	
Porto Alegre	Nov. 4-10	******	1	
Canada:			1	1
British Columbia—	Nov. 11-Dec. 1	3		
Vancouver	Nov. II-Dec. I	3		1
China:	Nov. 4-10		1	
Amoy	Oct. 21-Nov. 3			Present.
Chungking			1	Cases, fore gn; deaths, Chinese.
Shanghai	Nov. 5-11			Cases, fore.gn. deaths, Chinese.
Chosen (Korea): Fusan	Oct. 1-31	1		
	Oct. 1-31			
Ecuador:	Oct. 16-31			Present.
Latacunga				Sept. 23-29, 1923: Cases, 516;
India				deaths, 134.
D	Oct 14.00	2	1	deaths, 194.
Bombay			1	
Madras	Oct. 14-20			
Rangoon	Oct. 14-20	0		
Iraq (Mesopotamia): Bagdad	Oct. 9-16	1	-	-
Bagdad	Oct. 9-10		********	
Japan: Kobe.:	Nov. 9-16	1		
lava:	NOV. 9-10			
East Java— Soerabava	Oct. 7-20	129	9	Oct. 19: Reported epidemic.
West Java-	Oct. 1-20	140		Oct. 15. Reported epidenne.
Batavia	Oct. 19-26	13	1	City and Province.
Mexico:	Oct. 19-20	143		City and Florince.
Mexico City	Nov. 4-10	4		Including municipalities in Fed-
MCARCO CIGy	2404. 2 30			eral district.
Portugal:				
Oporto	Nov. 18-24	25	15	
Siam:			-	
Bangkok	Oct. 14-27	31	19	
spain:	Oct. 11 Bis	9.2	-	
Valencia	Nov. 18-24	34	1	
Funis:		0.	-	
Tunis	Nov. 19-25		1	
Union of South Africa				Sept. 1-30, 1923: Cases, 40; deaths
DIMOR OF DOCKER PRINCESSES				1 (colored).
Cape Province				Sept. 1-30, 1923: Cases, 34 (col-
Cupe I to time control				ored).
Natal	Oct. 21-27			Outbreaks.
				Sept. 1-30, 1923: Cases, 5; deaths,
				í.
Do	Oct. 14-20			Outbreaks.
Transvaal.				Sept. 1-30, 1923: Cases, 1.
Do	Oct. 21-27			Outbreaks.

TYPHUS FEVER.

Bulgaria: Sofia	Oct. 14-Nov. 3	3		Paratyphus fever, Oct. 14-Nov. 17, 1923: Cases, 39.
Mexico: Mexico City	Nov. 4-10	15		Including municipalities in Fed-
Palestine:	Nov. 6-12	3		eral district.
Jaffa Persia: Teheran	Aug. 24-Sept. 24	3	4	
Poland				Sept. 16-22, 1923: Cases, 43; deaths, 4; Recurrent: Cases, 4.
Union of South Africa				Sept. 1-30, 1923: Cases (colored), 316; deaths, 94. Cases (white), 5; deaths, 3; total, 321 cases, 97 deaths.
Cape Province				Sept. 1-30, 1923: Cases, 269; deaths, 81 (colored). White
Do Natal	Oct. 14-27			population, 3 cases, 1 death. Outbreaks. Sept. 1-30, 1923: Cases, 10; deaths, 3 (colored.) White, 1 case, 1 death.
Do	Oct. 14-20.			Outbreaks.

Reports Received During Week Ended December 21, 1923-Continued.

TYPHUS FEVER--Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Union of South Africa—Cont. Orange Free State	Oct. 21-27			Sopt. 1-30, 1923: Cases, 23; deaths, 5. (colored). White, 1 case, 1 death. Outbreaks.
Transvaal	Oct. 27-Nov. 3	1		Sept. 1-30, 1923: Cases, 14; deaths, 5

Reports Received from June 30 to December 14, 1923. CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:	2-4 10 00		2	
ColomboChina:	Sept. 16-22	******	-	
Canton	Aug. 26-Sept. 1	1		
Fooebow.				Present.
Shanghai			28	Cases, foreign; deaths, native.
Do			12	Reported moderately prevalent Aug. 28.
India				Apr. 15-June 30, 1923: Cases,
Bombay	June 3-30	34	23	19,470; deaths, 14,608. July 1-
Po		131	76	Sept. 22, 1923: Cases, 21,602;
Calcutta			300	deaths, 12,299.
Po			172	
Madras		2		
Po		20	10	
Rangoen			15	
Do			33	
Indo-China				Oct. 1-31, 1923: Cases, 92: deaths, 53. Preceding month: Cases,
				24; deaths, 14. October, 1921; Cases, 100; deaths, 61. Nov. 1- Dec. 31, 1922; Cases, 161; deaths,
City—				50 (native): European, 1 case.
Saigon	May 20-June 30	12	11	Including 100 square kilometers of surrounding country,
Do	July 1-28	13	12	Do.
Province-		-		
Annam	Sept. 1-Dec. 31	179	66	
Do				Epidemic.
Cambodge	Sept. 1-Dec. 31	47	27	
Cochin-China		51	33	
Do	Jan. 1-Feb. 28	19	8	
Tonkin	Oct. 1-Dec. 31	1		
Iraq (Mesopotamia):				
Bagdad		46	37	
Basrah	Aug. 8-Oct. 9	592	434	Port declared infected since Aug.
Philippine Islands: City—				6, 1923.
Manila	June 10-16	2	1	Death in foreign case from Chin-
Province—				kiang, China.
Bulacan	May 17-23	1		-
Capiz	May 27-June 2	1	1	
Cebu	Apr. 8-21	1	1	
Cotobato	Apr. 8-14	1	1	
Laguna	May 6-June 9	2	1	
Mindoro	Aug. 5-11	2	2	
Mountain	Mar. 25-31		1	
Occidental Negros	July 22-28	1	1	
Pangasinan	June 24-30	2	2	
Viscaya	July 7-14	1	1	
Russia (Soviet)				Jan. 1- May 15, 1923: Cases, 10.
Bangkok	May 13-June 30		11	
Do	July 1-Sept. 29	7	4	

¹ From medical officers of the Public Health Service, American consuls, and other sources.

Reports Received from June 30 to December 14, 1923—Continued. PLAGUE.

	PLA	GUE.		
Place.	Date.	Cases.	Deaths.	Remarks,
Algeria:	Aug. 11.00	2	1	Actual dates of occurrence: Aug
Algiers	Aug. 11-20			16 and 17, 1923.
St. Eugène Australia:	Aug. 1-20	1	2	Locality 5 miles north of Algiers.
Sydney	June 30	1	1	
St. Michael Island Bolivia:	May 6-26	12	5	In one locality.
La Paz Brazil:	Sept. 1-30	-	1 2	
Bahia Do	Sept. 2-15 Oct. 14-27	3	î	Jan. 1-Mar. 31, 1923: Deaths, 19
Porto Alegre British East Africa: Kenya—				
Kisumu	June 10-16	2	1	
Do Mombasa	Aug. 5-11	21	15	Plague rats, 6.
Kilindini Area	do			Plague rats, 12.
Tanganyiki	May 6-June 2 July 5-21. Apr. 1-30	3 20 7	3 12 5	Territory.
Uganda Canary Islands: Las Palmas	June 7	1		
Teneriffe	Nov. 6			Present.
Ceylon: Colombo Do	May 6-June 30 July 1-Oct. 20	18 75	19 69	Plague rats, 45. Plague rats, 30. One plague
China:				infected cat.
Amoy	May 13-June 25		10	
Do	May 13-June 25 July 1-Oct. 27		24	Rodent plague present.
Foochow	May 27-June 23		********	Present. Reported as endemic.
Hongkong	July 8-Sept. 1 Apr. 29-June 30 July 1-Oct. 6	63 33	40 39	reported as endenne.
Do Manchuria— Yakoshih	May 31		1	Station on Eastern Chinese Rail way. Occurring in tarabagar
Nanking	June 17-30 July 1-Nov. 3			(marmot) hunter. Bubonic. Rodent plague present. Present.
Do Ecuador:	July 1-Nov. s			
GuamoteGuavaquil	Aug. 1-15		2	Country district. May 16-June 30, 1923: Rats examined, 13,800; found infected
Do	July 1-Sept. 30 July 16-Aug. 15	10 7	3 3	sy. July 1-Aug. 15, 1923; Kats examined, 13,450; found in- fected, 23. Aug. 16-30, 1923; Rats taken, 54.304; found in- fected, 66. (Number examined not reported.)
Egypt	***************************************	•••••		Jan. I-June 21, 1923: Cases, 1,051; deaths, 548. May 1-29: Cases, 345. Jan. 1-June 24, 1923: Cases, 1,069. Jan. 1-Oct. 4, 1923: Cases, 1,360; deaths, 652.
City-	Y	0.5	45	
Alexandria	Jan. 7-June 24	35 18	15	
Port Said	July 1-Nov. 11 Jan. 7-June 24	24	12	
Do	July 1-Sept. 30	30	5	
Suez	July 1-Sept. 30 Mar. 2-June 15	12	7	
Do	July 16-Aug. 30	11	1	
Province— Assiout Benisouel	do	64		Deaths not reported.
Favoum Garbieh Geizeh Girgeh	do	14		Do.
Garbieh	do	2 3		Do.
Geizeh	do	123		Do. Sept. 26: One case.
Keneh	do	22	*********	Deaths not reported.
Menoufieh	do	34 46		Sept. 15: Cases, 1; deaths, 1. Deaths not reported.
France:	Aug. 13	1	•••••	Published in Public Health Reports, Sept. 14, 1923, pp. 2189 and 2190.

Reports Received from June 30 to December 14, 1923-Continued.

PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Greece:				
Syra Island	Sept. 10	*******		Present.
Hawaii:				Plague infected rate: Pohobos
Hamakua			**********	Plague-infected rats: Pohakea, May 23, 1923, 1 rat; vicinity oi Pacific Sugar Co. mill, June 2, 1 rat; Aug. 2, 1 rat at Hamakua Mill Co. plantation. Aug. 16, plague rat found at Kapulena. July 20, 1923: One plague rat;
				plague rat found at Kapulena.
Honokaa	Sept. 21	1	1	Sugar Co. mill and Honokaa village.
India	Apr. 20- Yuno 20	503	411	Apr. 20-Inno 23 1023: Cases
Do Do	Inly 1-Oct 13	50	42	Sent 22 1923 Cases 23 225
Bombay Do Calcutta	May 6-June 9	13	13	5, 783; deaths, 4,481. July 1- Sept. 22, 1923: Cases, 23,225; deaths, 15,850.
Do	Aug. 12-Sept. 15 May 13-June 30	2	2	
Karachi	May 13-June 30	110	85	Plague rats, 5.
Do	July 1-Oct. 20	123	111	,
Madras Presidency	May 13-June 30 July 1-Oct. 27	254 4,022	2,447	
Rangoon	May 6. June 30	260	229	
Do	July 1-Oct. 13	332	291	
Indo-China.				Oct. 1-Dec. 31, 1922: Cases, 245;
City—				Oct. 1-Dec. 31, 1922: Cases, 245; deaths, 237. Sept. 1-30, 1922: 70 cases, 68 deaths. Including 100 square kilometers
Saigon	June 24-30	5	5	Including 100 square kilometers of surrounding country.
Province—	July 1-7	1	1	Do.
Annam		40	36	Preceding month, 15 deaths.
Do	Jan. 1-Feb. 28	47	39	
Cambodge	Oct. 1-Dec. 31	145	145	Preceding month, 51 deaths.
Cochin-China	Oct. 1-Dec. 31 Jan. 1-Feb. 28 Oct. 1-Dec. 31 Jan. 1-Feb. 28	152	152	Preceding month, 4 cases, 2
Do	Jan. 1-Feb. 28	3	3	deaths.
Bagdad	May 1-June 30 Aug. 8-Sept. 4	335	224	
Basrah	Aug. 5-56pt. 4			May 1-June 30, 1923: Deaths, 912.
Province— Djokjaka rta	June 1-30	******	5	July 1-Sept. 30, 1923: Deaths, 1,554.
Do	July 1-Sept. 30		13	-,
Kedoe	June 1-30	*******	135 382	
Do Pekalongan	July 1-Sept. 30		48	
Do	July 1-Sept. 30 June 1-30 July 1-Sept. 30		137	
Samarang	June 1-30		143	
Do	July 1-Sept. 30		458	
Soerabaya	June 1-30		1	
Do	Aug. 1-Sept. 30		109	Mars 16 1002: Enidemia in 5 die
Soerakarta	June 1-30 July 1-Sept. 30		561	May 16, 1923: Epidemic in 5 dis- tricts.
Do	July 1-sept. 30		901	Apr. 1-June 30, 1923; Cases, 84;
Tananarive l'rovince	Apr. 1-June 30 July 1-Sept. 30	60 41	57 4	Apr. 1-June 30, 1923: Cases, 84; deaths, 81. July 1-Aug. 15, 1923: Cases, 11; deaths, 9. Sept.
Tananarive town	Apr. 1-June 30	24	21 10	1-30, 1923: Cases, 41; deaths, 37.
Do	July 1-Sept. 30	11	10	May 4-21, 1923: 2 cases.
Port Louis	May 4.	1		may 1 21, 10201 2 casco.
dexico:				Apr. 15-21, 1923: 1 plague rat.
Tampico				Aug. 8, 1923: At Dona Cecelia, a suburb of Tampico, 1 plague- infected rat found. From Jan. 1 to Aug. 8, 1923, plague- infected rats found, 5.
Morocco: Dar-Kebdani	Aug. 31-Sept. 13	1		Camp in Spanish Zone, Melilla District.
Larache (El Arish) Melilla	Nov. 2	7		Present. Spanish Zone.
Palestine Halfa	Sept. 8-Oct. 1	9		
FIRE Diversion of the contract	June 19-July 16	10		Bubonic and septicemic.

Reports Received from June 30 to December 14, 1923-Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Peru				May 1-June 30, 1923: Cases, 11
Locality—				deaths, 68, July 1-Oct. 31
Ayabaca	May 16-June 30		13	1923: Cases, 58; deaths, 30.
Do	July 1-31	4	2	
Callao		5	3	
Do	July 1-Sept. 30	4	2	
Canete		3	2	
Do	July 1-Oct. 31	8 3	4	
Cerro Azul	May 1-31	9	2	
Chiclayo Do	May 1-June 30 July 1-Aug, 31	6	4	
Cutervo	May 1-15	2	i	
Guadaloupe	Sept. 1-30			Present.
Guadaloupe Huancabamba	May 1-June 30	34	25	
Huacho	July 1-Oct. 31	2		
Huaral	June 1-30	2	2	
Do Lima (city)	July 1-Sept. 30	3	1	Sept. 1-30, 1923: Present 3
Lima (city)	May 1-31	17	8	country estates.
Do	July 1-Oct. 31	24	14	
Lima (country)	May 1-31	7	4	
Do	July 1-Oct. 31	6	2	
Mollendo	June 1-30	1	1	
Reque Salaverry	May 1-June 30	11	3	
Trujillo	do	2	3	
Portugal:				
Lisbon			1	I 1 M 17 10/21 E
Russia	************	******		Jan, 1-May 15, 1923: Few cases i Far East regions,
Senegal: Dakar	July 1-31	4	4	Reported to have come from por
Rufisque	Aug. 6			of Rufisque, Senegal. Present.
siam.				
Bangkok	Apr. 20-June 30	31	30 15	
Siberia			********	Sporadic cases of plague reported
				yearly in localities vicinity of
				stations Matsievskaya and Bozzia, Transbaikal Railway.
Haramhor	Mand	1	1	Village in tone of endemic tars
Haramnor	May 0	1	•	bagan (marmot) plague, Trans baikal region.
Station No. 83				Station on Transhaikal Rail
Station 40. Obsesses		*******	********	Station on Transbaikal Rail way. Marmot plague durin recent years.
Soktu				Do.
Singapore	May 6-June 30	6	8	
DU	July 22-Oct. 20	7	7	
Syria:	M 10 T 00			
Beirut			********	
Do	July 1-Sept. 30		1	
Curkey: Constantinople	Aug. 19-Sept. 22		2	On Aug. 16, 1923, 2 cases reported
Do			î	On Aug. 10, 1920, 2 cases reported
nion of South Africa:	Oct. 14-20	*******		
Haarhoff's Kraal	Oct. 18	3	3	
n vessel:		0	- 4	
S. S. Crewe Hall	Oct. 15	1	. * * * * * * * * * *	At Catania, Italy. Patient embarked at Port Said, Egypt Vessel left Viragapatam, India Aug. 29; at Colombo, Ceylon Sept. 12; Aden, Sept. 23; Por Sudan, Sept. 26; sailed for New

Reports Received from June 30 to December 14, 1923—Continued. SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
A lace.	-	-	-	1
Algeria:				
Algiers	. May 1-31	2 3		
Arabia:	. July 1-Aug. 10	3		
Aden	. May 27-June 2		. 2	
Do	July 8-Sept. 30	8		
Austria:	. valy o separation		-	
Vienna	. July 29-Aug. 4	1		
Azores:				3003
St. Michael Island	. July 15-21	7		Mild.
Bolivia: La Paz	Apr. 1-June 30	2	3	-
Do	Aug. 1-Sept. 30			
Brazil:				
Bahia		7		
Manaos				Year 1921: Cases, 2. Year 192
Pernambuco	May 6-June 16	72	7	1 case.
Rio de Janeiro	July 1-Oct. 27	25	3	
Do	May 13-June 23 July 15-Oct. 20	46	10	
Do Rio Grande do Sul	. July 10 Oct. Bo			Jan. 1-Mar. 31, 1923: Present wit
British East Africa:				some mortality.
Kenya Mombasa	May 20-26	1		From vessel from Bombay.
Tanganyika		3		Territory.
Do	July 1-Sept. 29	93	19	Do.
Uganda—				
Entebbe	Apr. 1-30	4	********	Tule 1 21 1002 Coon 7 donths
Zanzibar	*************	*******	********	July 1-31, 1923: Cases, 7; deaths,
Canada: Alberta—				
Celgary	May 27-June 2	1		Infection from Deer Lodge, Mont
British Columbia-	2100			
Vancouver	May 27-June 30	33	1	-
Do	July 1-Nov. 10	23	1	Clear.
Victoria	Aug. 5-25	2		
Manitoha—	Tune 2.20	1		
Winnipeg Do		9		
New Brunswick-	July 1-2101.11			
Kent County	July 1-7	1		
Ontario				June 1-30, 1923: Cases, 13. Jul 1-Sept. 30, 1923: Cases, 48 Nov. 1-30, 1923: Cases, 58.
London	July 15-21	1		Nov 1-20 1022: Coses 58
Sarnia Toronto	Nov. 4-24	3	*******	1404. 1-30, 1923. Cases, 33.
Do	July 15-21	1		
Quebec-	out) 10 at			
Quebec	June 10-16	1		Varioloid.
Saskatchewan-				
Moose Jaw	July 8-14	1	********	
Regina	June 24-30	3	*********	
Do	Oct. 7-13		**********	
Colombo	May 6-June 2	23	1	
Chile:		-		
Concepcion	May 22-June 11 Sept. 1-30		3	June 1-30, 1923: Cases, 2. July
Do	Sept. 1-30	3	2	1-31, 1923: 1 death.
Talcahuano	Aug. 12-Nov. 4 May 7-June 23	6	121	Landed from vessel.
Valparaiso	May 7-June 23	0	121	June 10-16, 1923: 29 cases reported from 2 districts.
Do	July 1-Oct. 27	12	13	July 30, 1923: 25 cases in lazaretto
				Aug. 6: 20 cases. Aug. 14: 6 cases present.
hina:				Canada Presenter
Amoy	May 13-June 23		3	June 19-25, 1923: Present.
Ďo	July 1-Oct. 27			Present.
Antung	May 13-June 23 July 1-Oct. 27 May 14-20	1		I 1 20 1000 Decemb Tol
Canton				June 1-30, 1923: Present. July 1-31, 1923: Present.
Chanakina				Present and endemic.
Chungking	May 13-June 30			Do.
Foochow	July 1-Oct. 20 May 13-Oct. 27			Present.
Hongkong	Apr. 29-June 30	98	82	
Do	Apr. 29-June 30 July 1-Oct. 20	151	101	
Manchuria—				
Dairen	May 21-27	1	********	
Harbin	May 7-June 24	5		
Do	July 1 Oct. 21	10		

Reports Received from June 30 to December 14, 1923-Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China—Continued.				
Manchuria—Continued.				
Mukden	May 13-20	1		
Nanking	May 13- June 23	1		
Do				Do.
Shanghai	May 21-June 3	4		
	July 2-Nov. 4	1 4	5	Foreign,
Do	July 2-Nov. 4	4	0	Cases, foreign; deaths, Chinese
Chosen (Korea):	May 1 21	1		
Chemulpo	May 1-31 May 1-June 30	1 4	********	
Fusan	May 1-June 30	9		
Do	July 1-31	22	6	
Gensan	May 1-31	1		
Seoul	May 1-June 30		13	
Do	July 1-Aug. 31	7	9	
Colombia:				
Barranquilla	Oct. 15-21		. 1	
Cuba:				
Antilla	July 8-14		2	From Preston,
Czechoslovakia				JanMar., 1923: Cases, 15. Apr.
Province-				June, 1923: Cases, 16; deaths, 4
Bohemia	Jan. 1-Mar. 31	15		ouncjasasi cares, as, deaths,
E cuador:	Just, a Main Garrier	10		
Alausi	July 16-31	3		
Bahia.	Sont 1-15	0		
	Sept. 1-15			
Esmeraldas	May 16 21	5		
Guayaquil	May 16-31	1		
Jipijapa	Sept. 1-15	8	*******	16 46 00 1000 P
Monte Cristi (Manabi)	do	20	1	May 16-30, 1923: Present.
Riobama	May 16-31	1	1	- '
Rocafuerte	do			Do.
Santa Ana	Sept. 1-15do	10		
Vinces	do			Present in district.
Zaruma (El Oro)	May 16-31			Present.
Egypt:				
Cairo	Mar. 12–July 1 Aug. 6–26	24	8	
Do	Aug. 6-26	2	1	
Esthonia			-	June 1-30, 1923: Cases, 4. Sept
LATERIOR MEAN				30, 1923: Cases, 3.
Finland				May 1-15, 1923: 1 case. July 2-31
i midilli			*******	1923: 3 cases. Aug. 1-Oct. 15
				1923: 4 cases. Aug. 1-0ct. 13
Franch Cuiana			1	Nov Dog 1000; Present Lun
French Guiana			*******	NovDec., 1922: Present, June 6, 1923: Present.
C				0, 1920; Fresent.
Cayenne				Year 1922: Present,
Great Britain:		-		
Birmingham	June 18-30	3		Present.
Bristol	June 28			Do.
Cardiff	June 3-30	6		
Gloucester	June 28			123 cases reported in hospital
Do	July 12	19		present in rural districts. July
				present in rural districts. July 15, 1923: Present. Aug. 9, 1923
				33 cases in isolation hospital
				two weeks previously about
				two weeks previously about 250 cases present in hospital.
London	Sept. 9-29		1	Sept. 22, 1923: Additional cases
Artification of the control of the c	pt. 0	0		in Middlesex County.
Nottingham	June 3-9	1		May 1_31 1023 Cases 211
Nottingham	July 8-Sept, 22		* * * * * * * * * * * * * * * * * * * *	May 1-31, 1923: Cases, 211.
Do	Sury 8-Sept. 22	6		
Sheffield	Sept. 16-22	3		
Greece:		-		
Athens	May 1-31	53	********	
Patras	Apr. 24-June 15		19	
Saloniki	Apr. 30-May 20	2	2	
Do	Apr. 24–June 15 Apr. 30–May 20 June 25–July 8	2	3	
Juadeloupe (West Indies)				July 22-Aug. 4, 1923: Present in-
				epidemic form. (Reported as
				alastrim) Aug. 17, 1923;
				alastrim.) Aug. 17, 1923 Stated to be officially declared
				present Sept 14-20: Eni
				present. Sept. 14-20: Epi demic generally diffused. Oct
				12 94 1092; Enidomia
Davis Mana	A 17 C 18			13-24, 1923: Epidemic
Basse Terre	Aug. 17-Oct. 13			Present,
Pointe à Pitre	Aug. 17			Estimated from 2,000 to 3,000
				cases, Sept. 2-8, 1923: 1,500 cases present: 8 deaths reported. Oct. 14-20, 1923: 1,000
				cases present: 8 deaths re-
				monted Oat 14 00 1009: 1 000
		1	1	ported, Oct. 14-20, 1920 1,000

Reports Received from June 30 to December 14, 1923-Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Hungary				July 15-Aug. 4, 1923; Cases, 28, Apr. 15-June 30, 1923; Cases, 8,112; deaths, 2,933, July 1- Sept. 22, 1923; Cases, 10,801;
India				Apr. 15-June 30, 1923: Cases,
Bombay	Apr. 22-June 30	298	141	8,112; deaths, 2,933. July 1-
Do	July 1-Oct. 13	80	40	Sept. 22, 1923; Cases, 10,801;
Calcutta	May 13-June 9	12	9	deaths, 2,567.
Do	July 1-Sept, 8	19	14	
Karachi	May 13-June 30 July 1-Oct, 13	24	8	
Do	July 1-Oct, 13	17	5	
Madras	May 13-June 23	91	16	
Do	July 8-Oct. 27	64	17	
Rangoon	May 6-June 30	125 51	67	
Do	July 1-Oct. 13	01	10	Nov. 1-Dec. 31, 1922: Cases, 234
In lo-China			*******	deaths, 68.
City— Saigon	May 20-June 30	34	23	Including 100 surrounding square kilometers.
Do	July 1-28	31	18	Do.
Province— Annam	Nov. 1-30	3	1	
Do	Jan. 1-Feb. 28	10	1	
Cambodge	Nov. 1-Dec. 31	97	41	
Do	Jan. 1-Feb. 28	63	17	
Cochin-China	Nov. 1-Dec. 31	125	34	1
Do	Jan. 1-Feb. 28	231	67	A few cases.
Laos	Feb. 1-28	9	1	A lew cases.
Tonkin Do	Dec. 1-31 Jan. 1-Feb. 28	69	13	
Iraq (Mesopotamia): Bagdad	Apr. 1-June 30	32	11	
Do	July 31-Sept. 4	13	1	
Basrah	Sept. 25-Oct. 9	3	1	
Italy:	Sant 17 09	6		
Leghorn	Sept. 17-23	1		
Turin	May 28-June 3 July 2-15	2		
Do	July 2-10	-		May 27-June 30, 1923: Cases 226.
amalea	May 27-June 30	39	********	July 1-Nov. 24, 1923; Cases, 437.
Kingston Do	July 1-Nov. 24	52		(Reported as alastrim.)
Japan:	vary - 11011 211111	-		()
Kobe	May 28-June 10	2		
Do	July 2-8	. 1		
lava:				
East Java				Aug. 26-Sept. 1, 1923: Cases, 36;
Soerabaya	Apr. 22-June 30	187	22	deaths, 3.
Do	July 15-Oct. 6	285	49	
Soerakarta				July 31, 1923: Epidemic.
West Java-				wa
Batavia	May 5-June 8	17	3	Province.
Do	June 30-Oct. 19	22	1	Do.
Latvia		******	*******	Apr. 1-May 31, 1923; Cases, 8, Aug. 1-31, 1923, 1 case.
				May 26-Nov. 10, 1923; Present.
Martinique				May 26-Nov. 10, 1923. Present
Mexico:	Tale 9 14		1	
Aguascalientes	July 8-14 June 11-24	7	1	
Chihuahua	July 22-Sept. 22		10	June 1-30, 1923: Cases, 15; deaths
Guadalajara	July 22-50pt. 22	******	10	2.
Mexico City	May 19-June 30	164		Including municipalities in Fed eral district.
Do	July 1-Nov. 3	211		Do.
	Nov. 12-18		1	
Vera Cruz	2404. 12-13		-	
Palestine: Jaffa	June 5-11	1		
	V1210 U-31			
Persia: Tabriz	Apr. 1-June 30		2	District.
Teheran	Apr. 1-June 30 Feb. 22-June 14		30	Mar. 22-June 22, 1923: Deaths, 12.
Do	July 24-Aug. 24		1	June 23-July 22, 1923: Deaths, 9.
Peru:				
Lima	Oct. 1-31	2		
Poland		******		Apr. 29-June 30, 1923: Cases, 1,861; deaths, 43. July 1-Sept. 1, 1923: Cases, 39; deaths, 10.
Portugal:				
Lisbon	May 20-June 30 July 1-Nov. 10	35	3	
Do	July 1-Nov. 10	49	13	
Oporto	June10-30	6	3	
Do	July 9-Nov. 17	108	67	

Reports Received from June 30 to December 14, 1923-Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Portuguese West Africa:				
Angola—				
Loanda	Apr. 1-21	2		
Do	July 29-Aug. 18		2	
Rhodesia (British Africa):		-		
Northern Rhodesia	May 8-14	21	8	
Southern Rhodesia	May 3-16	4	2	
Siam: Bangkok	Apr. 29-June 30	90	53	
Do	July 1-Nov. 13	432	256	Ang 29-Aug 25 1002: Cages 200
170	July 1-2101. 10	100	200	Apr. 22-Aug. 25, 1923: Cases, 329 deaths, 184. Sept. 8, 1923: Re
				ported prevalent.
Sierra Leone:				
Freetown	July 16-23	1	********	Landed from S. S. Tsad, from
T* . b . H .	Man 1 18	1	1	Southampton via Las Palmas
Kaballa	May 1-15 May 16-31		*********	In Sembehun district.
Pujehun Sambuya	Aug. 1-15	i	********	
Spain:	2146. I 10			
Barcelona	May 31-June 6		1	
Do	June 28-Oct. 17.		9	
Seville	July 19-25		1	
Valencia	July 19-25 May 15-June 30 July 1-Nov, 17	44	2	
Do	July 1-Nov. 17	79	16	
Switzerland:	Man 92 Tuna 20	4		
Basel	May 27-June 30			
Berne	July 8-Aug. 25 May 20-June 30	11		
Do	July 1-Nov. 10	16		
Luzerne	July 1-Nov. 10 May 1-June 7 July 1-Oct. 31	36		
Do	July 1-Oct. 31	34		
Zurich	May 20-June 23			
Do	July 15-Sept. 15	9		
Syria:	* * * **			
Aleppo	July 15-31	6		
Damascus	May 15-June 11	7	1	
Do	Aug. 16-Oct. 2 Oct. 17-23.	11		
Funis:	Oct. 11 20	· ·		
Bizerta	June 10-20	1		
Tunis	June 11-17	1		
Do	June 26-July 1	1		
Do	Nov. 5-11	1		
Turkey:	W 10 T 00		4=	
Constantinople	May 13-June 26 June 27-Sept. 22 Oct. 28-Nov. 3		45 18	
Do	Oot 28 Nov 3	1	1	
Union of South Africa	000. 20 1101. 0			May 1-Tune 20 1023 Cucas 66
mion or boath mines		*******		May 1-June 30, 1923: Cases, 66 deaths, 1 (colored), July 1-31, 1923: Cases, 17 (colored).
				1923: Cases, 17 (colored).
Cape Province				May 1-31, 1923; Cases, 32 (col-
				ored. July 1-31, 1923: Cases
_				10 (colored).
Do	May 6-June 30. July 1-Sept. 15. Sept. 30-Oct. 13. July 8-14. do. Apr. 29-June 30. Sept. 9-15. Oct. 7-13.			Outbreaks.
Do	July 1-Sept. 15			Do. Do.
Do	Tuly 8-14		*******	D0.
East London	do do		*******	July 1-31, 1923: 1 case (colored)
Orange Free State	Apr. 29-June 30	*******		Outbreaks.
Do				July 1-31, 1923: Cases, 4 (colored).
Do	Sent. 9-15			Outbreaks.
Do	Oct. 7-13			Do.
Transvaal				May 1-31, 1923: 1 case, July 1-31,
				1923: Cases, 2 (colored).
Do	July 1-Aug. 31			Outbreaks.
rugoslavia				July 1-Aug. 25, 1923: Cases, 150, deaths, 22.
Province— Bosnia-Herzegovina	July 1-7	1		upduling 46.
Crostia-Slavonia	do	4	1	
Croatia-Slavonia Zagreb	June 24-30.	1		
Serbia	Inly 1-7	2	1	
Belgrade Do Woivodina	June 10-16	1	1	
Do	July 8-14		1	
Walnadana	Inde 1-7	11		

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Reports Received from June 30 to December 14, 1923-Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
On vessels: S. S. Kargola	May 20-26	1		At Mombasa, British East Africa. Vessel arrived from Bombay,
S. S. Makura	May 26	2		Mar. 25, 1923. Two cases in quarantine (reported as alastrim). Vessel left Victoria, B. C., Apr. 28,
S. S. Tsad	July 16-31	1		1923. Touched at Honolulu. At Freetown, Sierra Leone Africa, from European and
8. 8	Aug. 12-18	1		West African ports. Landed at Talcahuano, Chile.

TYPHUS FEVER.

TITIOS PEVER						
Algeria:			1			
Algiers		66	19	July 1-Oct. 31, 1923: Cases,		
Argentina:				deaths, 6.		
Rosario	May 25-31					
Do	. Sept. 1-30		. 1			
Austria: Vienna	Sept. 23-Oct. 13	1				
Bolivia:	. Берг. 20-ост. 13	1 .				
La Paz						
Do Bulgaria:	July 1-Sept. 30	18	3			
Sofia	Apr. 22-June 23	11	2	Paratyphus, 2 cases: 2 deaths.		
Do			1	Paratyphus, 5 cases. Sept. 2-29 1923: Paratyphus, cases 6.		
Canary Islands:				, and a state of		
Teneriffe	Oct. 22-Nov. 4		2			
Antofagasta	Oct. 21-Nov. 9	15	1			
Concepcion	May 22-June 18					
Do						
Iquique			2			
Talcahuano Valparaiso			26	June 11, 1923; 34 cases in Salvado		
Do			91	Horpital. July 30, 1923; 4 cases in hospital. Aug. 6: 5 cases. Aug. 12-18; 82 case stated to be present. Aug. 25 88 cases in lazaretto.		
China:				85 cases in fazaretto.		
Antung	May 28-June 24	12				
Do		9				
Chungking	Aug. 26-Oct. 20			Endemic.		
Hankow Manchuria—	May 19-25	1	********			
Harbin						
Do	Aug. 27-Sept. 2	2				
Mukden		2		7 M 1000- C 101		
Zechoslovakia Province—				JanMar., 1923: Cases, 191 deaths, 6. Apr. 1-June 30 Cases, 132; deaths, 4. para-		
Bohemia	Apr. 1-June 30	8		Cases, 132; deaths, 4. para		
Moravia		2		typhoid A, 1; paratyphoid B		
Russinia	do	98	1	20.		
Silesia		23	2			
gypt:		-0	-			
Alexandria	May 14-June 24	7	5			
Do	June 25-Nov. 11	13	8	Paratyphoid fever, 2 cases.		
Cairo	Apr. 12-June 24	44 31	29 29	Date corrected from previous re-		
Port Said	Ang 2.19		29	port.		
Sthonia				June 1-30, 1923: Recurrent ty- phus, 1 case; paratyphus, 2		
inalnd	Sept. 16-30	1		cases. Aug. 1-Oct. 15, 1923: Paratyphus 109 cases. Sept. 1-15, 1923: One case recurrent typhus.		

Reports Received from June 30 to December 14, 1923-Continued.

TYPHUS FEVER-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
France:				
Marseille	Mar. 1-May 31		. 3	
Germany:		1		1
Coblenz	May 27-June 2		1	
Do	July 29-Sept. 22	10		
Hamburg	May 20–26 July 29–Aug. 4	3		
Do	July 29-Aug. 4	1		Case developed July 28, 1923, at
k onigsberg	May 13-June 2	2		Emigration Hall, Hamburg.
Do	Aug. 12-Oct. 20	3		
Stettin	May 13-June 2 Aug. 12-Oct. 29 May 27-June 9	1	1	
Stuttgart	Sept. 2-Nov. 3	8	1	
Great Britain:			i	
Ireland—	A 10 05			
Cork	Aug. 19-25	1	1	May 1-31, 1923: Cases, 876.
Greece	Mar. 1 21	150	5	May 1-01, 1020. Casos, 510.
Do	May 1-31	100	1	
Patras	Apr. 24-June 15	******	30	
Do	Aug. 16-31	******	2	
Piræus	May 1-June 30	356	11	
Do	July 1-10	3		
Saloniki	Apr. 30-June 24	56	16	Apr. 30-May 27, 1923; Recurrent
Do	July 9-Oct. 21	2		typhus: Cases, 3; deaths, 3.
Guatemala:	,			
Guatemala City	Apr. 1-June 30		5	
Hungary			*********	Jan. 1-May 19, 1923: Cases, 318
Budapest	Jan. 1-June 2	48	12	deaths, 36. In 11 counties.
Do	Sept. 2-8	1	********	
raq (Mesopotamia):				
Basrah	Sept. 5-Oct. 1 Apr. 1-June 30	1		
Bagdad	Apr. 1-June 30	3		
Do	Aug. 8-15	1	1	
apan:				
Nagasaki	July 2-8	1	********	
ava:				
East Java—	Tules 20 Oat 6	28	5	
Soerabaya	July 29-Oct. 6	40		Apr. 1-June 30, 1923: Case: 231:
	0 4 4 0 0 0 8 8 8 9 0 0 0 0 0 0 0 0 0 0 0			Apr. 1-June 30, 1923: Cases, 231; paratyphus, 5 cases. June 1- Sept. 30, 1923: Cases, 95; para- typhus, 11 cases; recurrent typhus, 2 cases.
Mexico:				Cont. 16 20 1000: 1 dooth
Guadalajara	June 1-30	1		Sept. 16-22, 1923: 1 death.
Do	July 1-Oct. 30	2	1	Including municipalities in Fed.
Mexico City	May 20-June 30	75	*********	Including municipalities in Fed-
	Y 1 - 1 31 - 0	100		eral district.
Do	July 1-Nov. 3	166		Do.
San Luis Potosi	July 29-Aug. 4		1	Aug. 14-20, 1923: 1 case, in north-
Palestine	Oct 10 99	1		ern district.
Haifa	Oct. 16-22	2		can district.
Jaffa	May 22-28 June 26-Oct. 1	7		Relapsing fever, I case.
Do	May 22-28	í	********	recializated tevery a caree.
Persia:	Misy 45-20		********	
Tabriz	Apr. 1-14	2		
Teheran	Feb. 22-June 14		4	
Do	July 1-22		1	
Poland				Mar. 4-Apr. 7, 1923: Cases, 2,253;
				Mar. 4-Apr. 7, 1923: Cases, 2,253; deaths, 172. Recurrent typhus: Cases, 338; deaths, 6. Apr. 29-June 30, 1923: Cases, 2,206; deaths, 177. July 1-Sept. 1, 1923: Cases, 672; deaths, 52. Recurrent typhus: Apr. 29-June 23, 1923: Cases, 337; deaths, 3. July 1-Sept. 1, 1923: Cases, 117; deaths, 4.
1				
Portugals				
Portugal:	June 10-16	1		
Oporto	June 10-16	1 3		
Oporto	June 10-16 July 1-21			
Oporto	July 1-21			District.

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Reports Received from June 30 to December 14, 1923-Continued.

TYPHUS FEVER-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia				Jan. 1-Apr. 30, 1923; Cases
European Russia and au- tonomous republics.	Jan. 1-Apr. 30	93,999		106,854. (Corresponding period
Siberia, Caucasus, and Cen- tral Asia.	do	9,921		1922: Cases, 847,516.) Feb. 1- 28, 1923: Cases, 17,577. Recur- rent, Jan. 1-Feb. 28, 1923:
Waterways and railways	do	2,934		Cases, 43,540.
Spain: Barcelona	June 21-27		1	
Do	Aug. 23-Oct. 31		14	
Madrid	July 1-31		1 2	
Sumatra: Medan	May 1-June 30	34		
Switzerland:		1		G 4 10 00 1000 P
Zurieh	******			Sept. 16-22, 1923: Paratyphus fever, cases, 5.
Syria: Aleppo	May 20-June 16	4	2	
Do	July 15-21	3	1	
Beirut Tunis:	May 1-10	1		
Tunis Do		3	2 2	
Turkey:			-	
Constantinople	May 13-June 26 June 27-Nov. 3	11	19	
Union of South Africa				May 1-June 30, 1923; Cases, 230;
				deaths, 47 (colored). White— Cases, 15; deaths, 1. Total,
				245 cases, 48 deaths. July 1-31,
				1923: Cases, 133 (colored, 132 cases; white, 1 case); deaths, 24.
Cape Province	******			May 1-31, 1923: Cases, 49 (colored); white, 5. July 1-31, 1923: Cases, 94; deaths, 21
				1923: Cases, 94; deaths, 21
Do	Aug. 12-Oct. 13			(colored). Outbreaks.
Natal				May 1-31, 1923: One case (col- ored).
Orange Free State	********			May 1-31, 1923: Cases, 45 (col-
		-		ored). July 1-31, 1923; Cases, 36; deaths, 3 (colored). One
Do	Man 6 June 16			case in white population. Outbreaks.
Do	Aug. 12-Oct. 13			Do.
Transvaal	May 1-June 30	4	4	May 1-31, 1923: Cases, 7. July 1-31, 1923: Cases, 2 (colored),
Johannesburg Do Yugoslavia	Oct. 6-13	î		
Province-				July 1-7, 1923: Cases, 4.
Bosnia-Herzegovina Croatia-Slavonia—	July 1-7	4		
Zagreb	May 27-June 2	1		
Serbia— Belgrade	Aug. 12-18	1		
	YELLOW	FEVER	t.	
Deseil	1	1	1	t = x t = 0.00
Brazil: Bahia	May 13-June 30	25	6	
Do	July 1-Sept. 8	13	6	
Colombia:				